

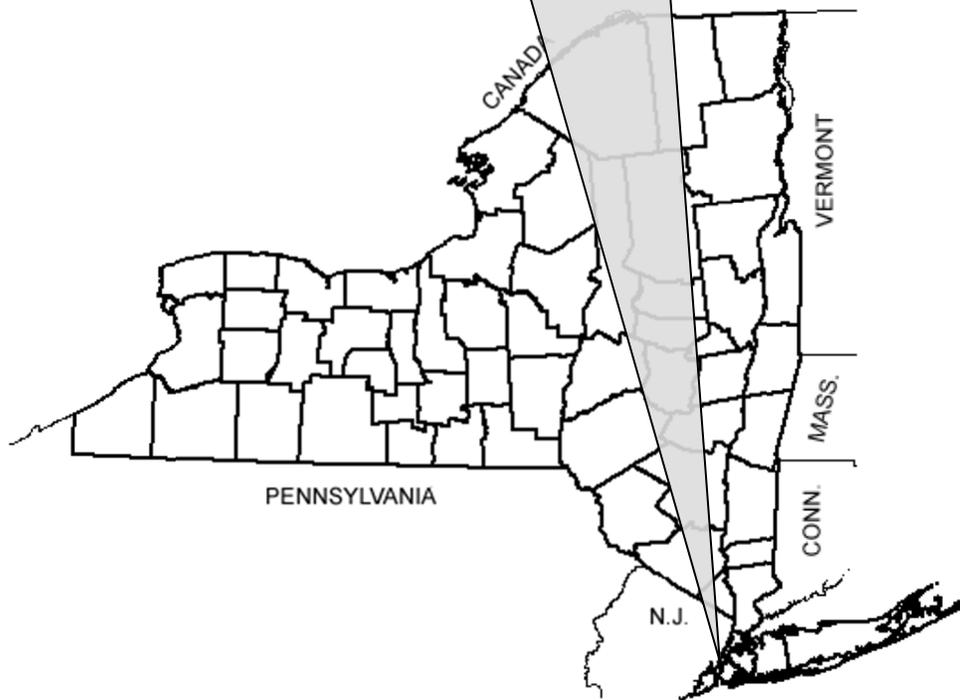
TRANSPORTATION

DRAFT DRAINAGE REPORT

Submittal to NYSDOT

May 2022

Hunts Point
Interstate Access Improvement
Contract 3
PIN X731.65
Bronx County, New York



PROJECT REPORT



Department of
Transportation



U.S. Department of Transportation
Federal Highway Administration

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1.0 INTRODUCTION

This drainage report outlines the existing combined sewer systems within the project limits and the proposed drainage system for Contract 3 (PIN X731.65) within the Hunts Point Interstate Access Improvement Project (PIN X731.55).

The purpose of the Project is to provide improved access between the Hunts Point Peninsula and the Sheridan and Bruckner Expressways for automobiles and trucks traveling to and from the commercial businesses located on the peninsula. In addition, the Project will address structural and operational deficiencies related to the existing infrastructure. The Project will be constructed in three contract segments. This drainage report covers the Contract 3 project area.

1.1 Project Location

As depicted in Figure 1 - Project Limits of Work – 1 and Figure 2 - Project Limits of Work – 3, the Project is located on and in the immediate vicinity of the Hunts Point Peninsula, South Bronx, New York. Work proposed for the Build Alternative is shown in Figure 2. Contracts 1 (PIN X731.63) and 2 (PIN X731.64) are currently in construction. This report addresses the Contract 3 area, which is scheduled to begin construction in January 2023.

The limits of Contract 3 of the Project are Bruckner Expressway and Bruckner Boulevard from the intersection of Barretto Street and Bruckner Expressway to the south to Whitlock Ave. in the north. The approximate boundaries of Contracts 1, 2 and 3 are shown in Figure 3 – Construction Contract Areas.

1.2 The Hunts Point Interstate Access Improvement Project

The project is being undertaken to improve vehicular access to the Hunts Point Food Distribution Center via the Bruckner and Sheridan Expressways by constructing a split interchange at Edgewater Road and Leggett Avenue (see Figure 3 – Construction Contract Areas). In Contract 3, two new ramps (Ramps SS and SN) at westbound and eastbound Bruckner Expressway will be constructed at Hunts Point Avenue, allowing traffic to continue along Bruckner Expressway. The Expressway will be reconstructed between Hunts Point Avenue and the bridges over Amtrak.

1.3 Contract 3 Proposed Work

Contract 3 includes the following proposed work:

- Removal of Existing Viaduct and Ramps from Hunts Point Ave to Sheridan Interchange
- Proposed Ramp SS
- Proposed Ramp SN
- Reconstruction of Bryant Avenue Pedestrian Bridge
- Rehabilitation of Bruckner Expressway from Barretto Street to Hoe Avenue
- Reconstruction of Bruckner Expressway from Hoe Avenue to Longfellow Avenue
- Pedestrian Improvements at Intersections including bulb-outs, shared use path extension
- At grade improvements from Barretto Street to Whitlock Ave. including intersection safety improvements at Hunts Point Avenue, pavement rehabilitation, and shared use path extension

2.0 EXISTING DRAINAGE SYSTEMS

The Contract 3 Project has multiple drainage systems (shown in Appendix A) based upon review of New York City Department of Environmental Protection (NYCDEP) and New York State Department of Transportation (NYSDOT) existing sanitary and storm sewer records and the results of field reconnaissance. The Project is located within NYCDEP's Combined Sewer System (CSS). The tributary watershed areas within the Contract 3 Project are located on the Bruckner Expressway viaduct and the Bruckner Boulevard at-grade roadways.

The existing storm sewer system serving the elevated Bruckner Expressway viaduct includes highway scuppers, above-grade piping, downspouts, catch basins, manholes and sewers that collect stormwater from the NYSDOT-owned roadways and structures. All storm water systems for this Project are tributary to the Hunts Point Treatment Facility (WWTF) that has a 200 MGD (million gallon per day) capacity. There are no CSO outfalls that discharge to open water within the limits of Contract 3 work area. See Figure 4 – Combined Sewer Outfalls for details.

The Project has two distinct tributary drainage areas created by the highpoint in the elevated mainline of Bruckner Expressway viaduct and the Boulevard. Generally, stormwater from the NYSDOT drainage systems east of Hunts Point Avenue flow to a NYCDEP CSS within Bruckner Boulevard westbound into a 9'-9" x 11'-0" combined sewer adjacent to Longfellow-Whitlock Avenues that eventually flows to the Hunts Point WWTF. Stormwater from the NYSDOT drainage systems west of Hunts Point Avenue flow to a NYSDOT CSS in Bruckner Boulevard eastbound and westbound that flow into the Contract 2 area and eventually route to the Hunt's Point WWTF.

The drainage systems which are analyzed and proposed to be modified within these project boundaries are owned and/or maintained by either the NYCDEP or the NYSDOT. See Appendix A for the NYCDEP Sewer Mapping schematics within the Contract 3 Area. See Appendix B for NYCDEP As-Built within the Contract 3 Area. See Appendix C for preliminary drainage plans within the Contract 3 area.

2.1 Drainage Systems Flowing West from Hunts Point Avenue

The Bruckner Expressway is a viaduct above Bruckner Boulevard within the Contract 3 area from Hunts Point Avenue to Barretto Street. Stormwater from the Bruckner Expressway viaduct west of Hunts Point Avenue flows west and is collected via scuppers and above grade piping systems to downspouts that discharge flow to catch basins within Bruckner Boulevard. These catch basins flow to a NYSDOT storm sewer system located beneath Bruckner Boulevard Eastbound. Bruckner Boulevard westbound contains NYCDEP combined sewers. Both NYSDOT and NYCDEP drainage systems connect to the NYCDEP CSS that conveys flow to the Hunts Point WWTF.

Stormwater from the Bruckner Boulevard Expressway Viaduct and Bruckner Boulevard Westbound is collected into a NYSDOT system in Bruckner Boulevard Eastbound via a series of catch basins and sewers that flow west to Longfellow Avenue. At Longfellow Avenue, the NYSDOT system ties into the NYCDEP system that conveys flow to the Hunts Point WWTF.

Stormwater from Bruckner Boulevard Westbound is collected into a NYCDEP 15 in diameter combined sewer that flows west to Barretto Street and then north to Southern Boulevard and eventually combines with other flow that crosses Bruckner Boulevard at Longfellow Avenue at the same point where the NYSDOT system discharges into the NYCDEP sewer system. All flow from this location is conveyed to the Hunts Point WWTF.

2.2 Drainage Systems Flowing East from Hunts Point Avenue

Stormwater from the Bruckner Expressway viaduct east of Hunts Point Avenue flows east to the 9'-9" x 11'-0" sewer located just east of the MTA subway portal along the east side of Whitlock Avenue. There are two existing combined sewer systems located in Bruckner Boulevard Westbound that were constructed at the same time that the subway was constructed in the early 1900's. See Appendix E for details. The NYCDEP south sewer system has one known existing connection to the existing building within Monsignor Del Valle Square Park. See Appendix A for the NYCDEP Sewer Mapping schematics between Monsignor Del Valle Square Park and Whitlock Avenue. The NYSDOT drainage system has five (5) existing points of connection that discharge to NYCDEP's existing south sewer system in Bruckner Boulevard Westbound.

NYCDEP's existing sewer system on the north side of the MTA tunnel collects stormwater from E163rd Street, Hoe Avenue, Faile Street, Bryant Avenue, Whitlock Avenue and Longfellow Avenue. The NYCDEP north sewer system has a possible site connection servicing the existing back-of-house bathrooms in the MTA Hunts Point Subway Station. See Appendix A for the NYCDEP Sewer Mapping schematics between Monsignor Del Valle Square Park and Whitlock Avenue.

3.0 PROPOSED DRAINAGE SYSTEMS

3.1 New Development and Increased Pervious Surface

The project will not increase the total area tributary to the HP WWTF as shown in Exhibits DRE-1 to DRE-3. The proposed NYSDOT drainage system will be designed so that the 5 existing points of connection from beneath Br. Expwy that discharge to the NYCDEP existing sewer system in WB Bruckner Boulevard will be abandoned, and will not connect to the NYCDEP system until it reaches the 11'x9-9" arch brick sewer on Whitlock Ave. There will be no development within the project area that is considered new development.

Additional pervious landscaping has been proposed that will decrease the overall flow of the area and limit the amount flowing into the proposed NYSDOT drainage system. There will be increases in pervious areas within the project limits via green spaces on the median between Barretto Street and Hunts Point Ave. There are additional green spaces on the west sidewalk along WB Bruckner Boulevard, and the east sidewalk along EB Bruckner Boulevard. Please see Appendix J—Changes in Pervious and Impervious Surfaces for details on new pervious surfaces within the project limits.

3.2 Bruckner Expressway Drainage System – Proposed

3.2.1 Bruckner Expressway West of Hunts Point Ave.

Please see Exhibits DRE-1, DRE-2, and DRE-3 and Appendix C - Contract 3 – Preliminary Drainage Plans.

Stormwater on Bruckner Expressway above Bruckner Boulevard will flow along the shoulder and median and be collected by scuppers. The proposed scuppers on the Expressway will route flow to above grade piping and downspouts to discharge to catch basins on Bruckner Boulevard.

3.2.2 Bruckner Expressway East of Hunts Point Ave.

Please see Exhibits DRE-1, DRE-2, and DRE-3 and Appendix C - Contract 3 – Preliminary Drainage Plans.

Stormwater along the proposed Bruckner Expressway viaduct and ramps from Sheridan Boulevard east of Hunts Point Ave will drain through proposed scuppers, above grade piping and downspouts to proposed catch basins along Bruckner Boulevard. The proposed catch basins in the fill area of Bruckner Expressway will be connected to the proposed NYSDOT system within EB Bruckner Boulevard. See Exhibits DRE-1, DRE-2, and DRE-3 and Appendix C - Contract 3 – Preliminary Drainage Plans for layouts and profiles of

the proposed systems. There will be no proposed connection to the existing combined NYCDEP sewer on WB Bruckner Boulevard.

3.3 Bruckner Boulevard Drainage System – Proposed

Catch basins are proposed to be relocated upstream of proposed ADA pedestrian ramps and other pedestrian improvements. Catch basins are relocated for curb line adjustments at medians and for the removal of existing medians. Whenever possible, replacement catch basins should be reconnected to the manhole of the catch basins they are replacing to avoid altering existing drainage patterns. As needed, where there are changes to concrete islands and pedestrian curb bump-outs, catch basins and chute connections for the existing NYCDEP sewer system will be reset. This will not change the existing drainage patterns, other than making stormwater collection more effective.

3.3.1 At-Grade Bruckner Boulevard West of Hunts Point Ave.

Stormwater on WB Bruckner Boulevard west of Hunts Point Ave. will flow into catch basins that will connect to the existing drainage system. Please see Appendix C - Contract 3 – Preliminary Drainage Plans for details. The existing and proposed drainage areas on WB Bruckner Expressway in this area are a combination of pervious and impervious areas.

Stormwater on EB Bruckner Boulevard west of Hunts Point Ave. will flow into existing and proposed catch basins that will connect to the existing drainage system. Stormwater conveyed from downspouts from the Bruckner Expressway above will flow to the catch basins along EB Bruckner Boulevard. Please see Appendix C - Contract 3 – Preliminary Drainage Plans for details. The drainage plans show the flow along EB Bruckner Boulevard.

The existing tributary drainage area for Bruckner Boulevard west of Hunts Point Ave. is 3.53 acres. The proposed tributary drainage area for Bruckner Boulevard west of Hunts Point Ave. is 3.53 acres. There is no change in total tributary drainage area contributing to the Hunts Point WWTF within the Contract 3 project area south of Hunts Point Ave. See Exhibit DRE-1 for details.

3.3.2 At-Grade Westbound Bruckner Boulevard East of Hunts Point Ave.

Drainage along WB Bruckner Boulevard east of Hunts Point Ave. is provided by catch basins and existing combined sewers running within Bruckner Boulevard or running across Bruckner Boulevard at intersecting streets.

The existing Bruckner Boulevard tributary drainage area east of Hunts Point Ave. is 10.78 acres. The proposed Bruckner Boulevard tributary drainage area east of Hunts Point Ave. is 10.78 acres. There is no change in total tributary drainage area contributing to the Hunts Point WWTF within the Contract 3 WB Bruckner Boulevard project area east of Hunts Point Ave. See Exhibit DRE-2 for details.

3.3.3 At-Grade Eastbound Bruckner Boulevard East of Hunts Point Ave.

There is a proposed NYSDOT drainage sewer on EB Bruckner Expressway east of Hunts Point Ave. The proposed drainage plans show a system of catch basins and manholes on the EB Bruckner Boulevard flowing through 12-30 inch pipes. Stormwater from these proposed catch basin/manhole networks will convey stormwater through the new NYSDOT sewer system, which will flow into the existing 11'x9-9" brick arch sewer that runs beneath Whitlock Ave. Please see Appendix C - Contract 3 – Preliminary Drainage Plans for details. The new drainage system will encompass all the flow on Bruckner Expressway east of Hunts Point Ave to the bridge over the Amtrak train tracks, as well as any flow on EB Bruckner Boulevard. The existing sewer connections to the existing NYCDEP combined sewer on the east side of WB Bruckner Boulevard will be abandoned. See Exhibit DRE-3 for details. 4.38 acres will flow into the existing NYCDEP CSS and 6.4 acres will flow into the proposed NYSDOT sewer system.

Stormwater along the proposed sidewalk area along EB Bruckner Boulevard east of Hunts Point Ave will flow into catch basins that will connect to the proposed NYSDOT drainage system. Please see Appendix C - Contract 3 – Preliminary Drainage Plans for details. The existing drainage areas on the EB Bruckner Boulevard sidewalk in this area are impervious. The proposed drainage areas on the EB Bruckner Boulevard sidewalk in this area are a combination of pervious and impervious areas. See Appendix J – Roadway Plans for details.

4.0 ANALYSIS OF EXISTING AND PROPOSED DRAINAGE NETWORKS

All stormwater collection systems within the Contract 3 project area connect to the NYCDEP CSS. The drainage systems will be analyzed and designed in greater detail by the Design-Builder using the Rational Method using Bentley Systems Storm and Sanitary modeling, or another accepted method later in the design process. Flow control methods will be evaluated to prevent any increases in allowable flow to the NYCDEP sewer system. The storm drainage system for the expressway shall be designed for the 10-year storm. The low point drainage in the mainline shall be analyzed for the 50-year storm for the depressed condition.

The existing NYCDEP sewer on WB Bruckner Boulevard will remain and not be impacted during construction. If any piece of the existing NYCDEP sewer system needs to be replaced during construction, it will be replaced in accordance with NYCDEP requirements.

The proposed NYSDOT sewer system on EB Bruckner Boulevard will follow NYSDOT requirements.

Tributary Drainage Area West of Hunts Point Ave	
Existing:	3.53 acres
Proposed:	3.53 acres

Tributary Drainage Area East of Hunts Point Ave	
Existing:	10.78 acres
Proposed:	10.78 acres

Total Tributary Drainage Area of Project	
Existing:	14.31 acres
Proposed:	14.31 acres

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are provided for the stormwater drainage design within the Contract 3 project limits:

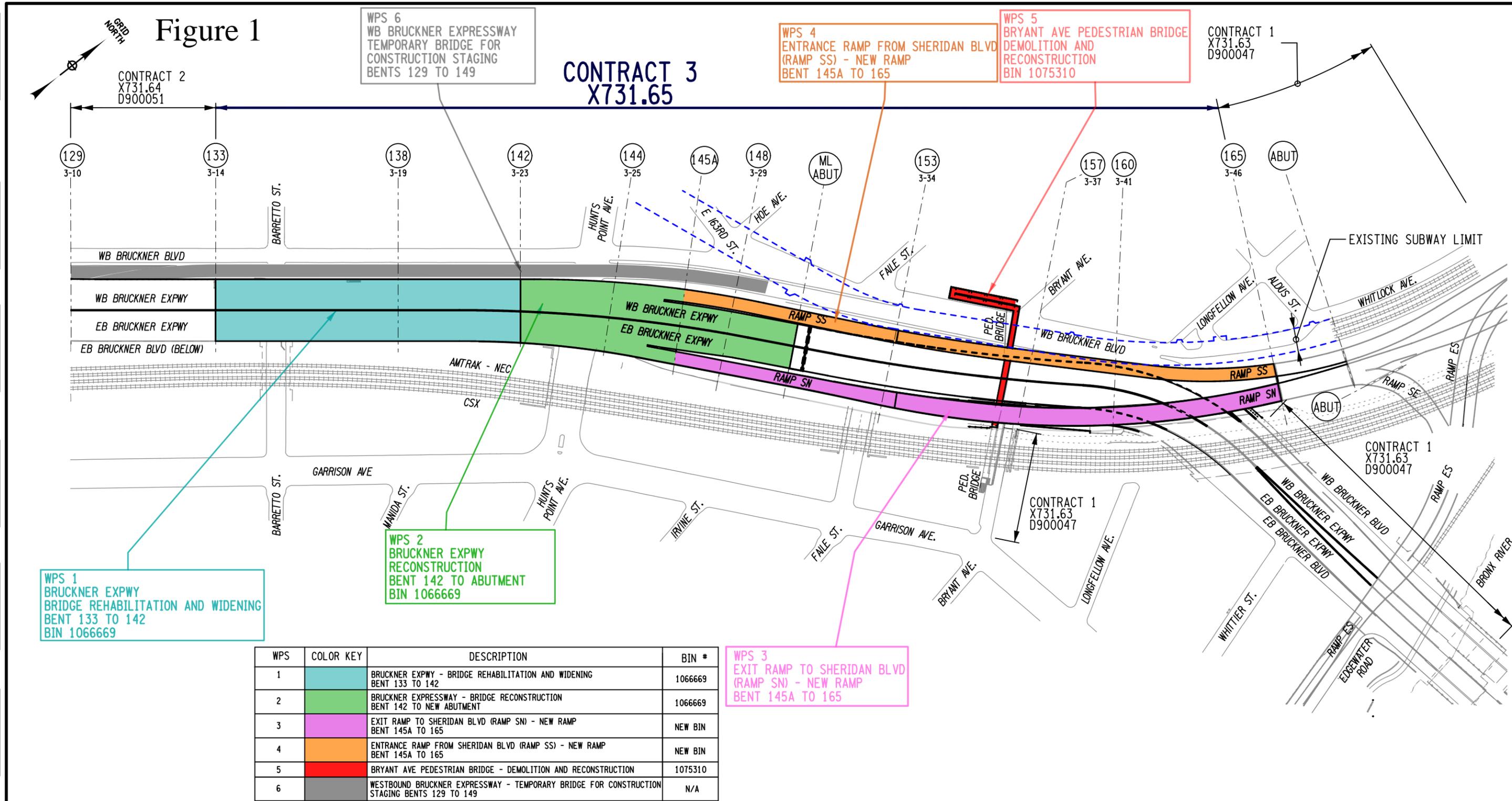
- The existing NYCDEP sewer system on WB Bruckner Boulevard will remain and not be impacted.
- The proposed NYSDOT drainage system on the viaduct structure and on EB Bruckner Boulevard will discharge stormwater into new sewers that convey the stormwater to the 9'-9" x 11'-0" NYCDEP sewer at the existing point of connection.
- The existing tributary drainage area for this project is 14.31 acres. The proposed tributary area will be 14.31 acres. There will be no increase in the tributary area draining to the Hunts Point WWTF as a result of this project.
- There will be an increase in the pervious area of the project due to the additional green spaces along Bruckner Boulevard.

Figures

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Figure 1

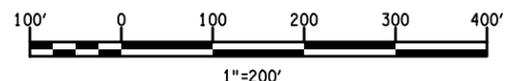


WPS 1
 BRUCKNER EXPWY
 BRIDGE REHABILITATION AND WIDENING
 BENT 133 TO 142
 BIN 1066669

WPS 2
 BRUCKNER EXPWY
 RECONSTRUCTION
 BENT 142 TO ABUTMENT
 BIN 1066669

WPS 3
 EXIT RAMP TO SHERIDAN BLVD
 (RAMP SN) - NEW RAMP
 BENT 145A TO 165

WPS	COLOR KEY	DESCRIPTION	BIN #
1	Cyan	BRUCKNER EXPWY - BRIDGE REHABILITATION AND WIDENING BENT 133 TO 142	1066669
2	Green	BRUCKNER EXPRESSWAY - BRIDGE RECONSTRUCTION BENT 142 TO NEW ABUTMENT	1066669
3	Magenta	EXIT RAMP TO SHERIDAN BLVD (RAMP SN) - NEW RAMP BENT 145A TO 165	NEW BIN
4	Orange	ENTRANCE RAMP FROM SHERIDAN BLVD (RAMP SS) - NEW RAMP BENT 145A TO 165	NEW BIN
5	Red	BRYANT AVE PEDESTRIAN BRIDGE - DEMOLITION AND RECONSTRUCTION	1075310
6	Grey	WESTBOUND BRUCKNER EXPRESSWAY - TEMPORARY BRIDGE FOR CONSTRUCTION STAGING BENTS 129 TO 149	N/A



REFERENCES:
 1. FOR GENERAL PLANS SEE DWGS. GP-1 THRU GP-10.

AFFIX SEAL: ON: _____
 ALTERED BY: ON: _____

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900055
	CONTRACT 3 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.					DIRECTIVE PLANS PROJECT LIMITS OF WORK -1
COUNTY: BRONX		REGION: 11				

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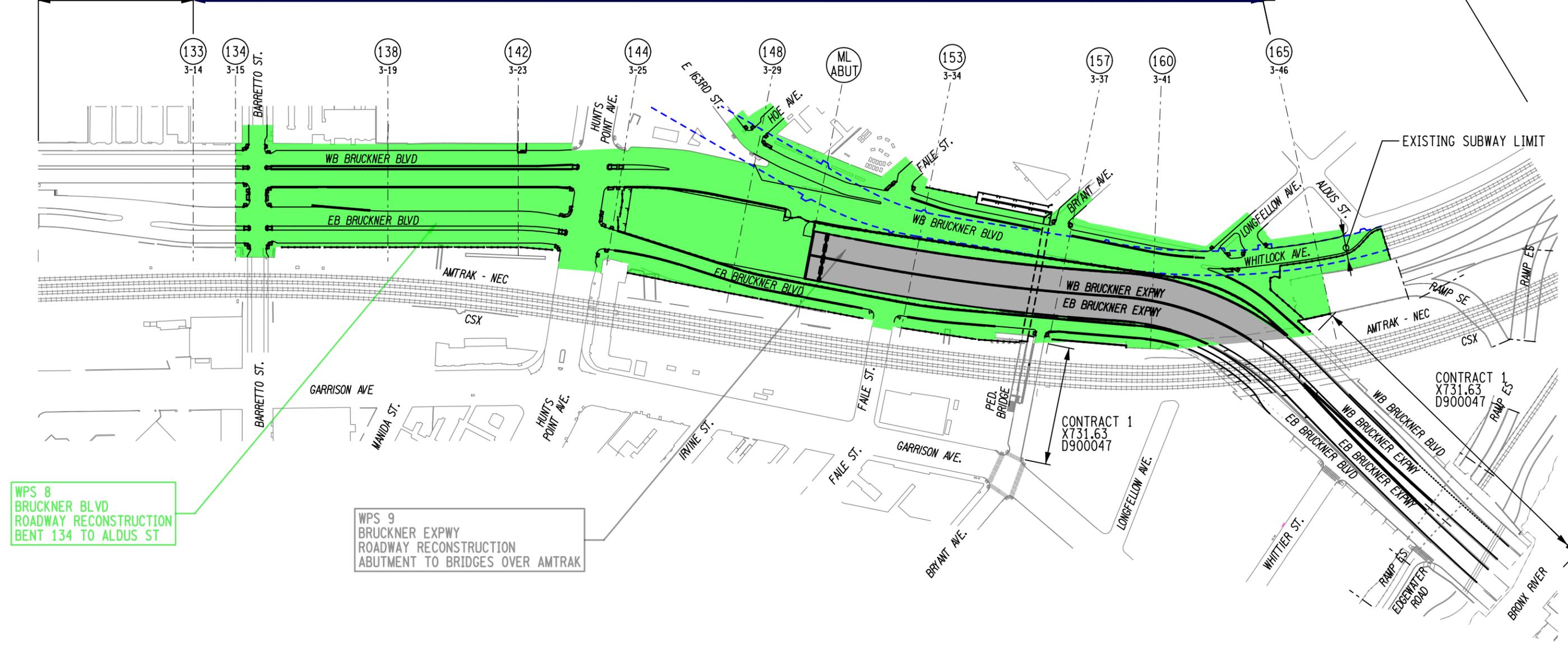


Figure 2

CONTRACT 3
X731.65

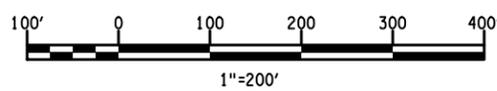
CONTRACT 1
X731.63
D900047

CONTRACT 2
X731.64
D900051



WPS 8
BRUCKNER BLVD
ROADWAY RECONSTRUCTION
BENT 134 TO ALDUS ST

WPS 9
BRUCKNER EXPWY
ROADWAY RECONSTRUCTION
ABUTMENT TO BRIDGES OVER AMTRAK



WPS	COLOR KEY	DESCRIPTION	BIN #
8	[Green Box]	BRUCKNER BLVD - ROADWAY RECONSTRUCTION BENT 134 TO ALDUS ST	N/A
9	[Grey Box]	BRUCKNER EXPWY - ROADWAY RECONSTRUCTION ABUTMENT TO BRIDGES OVER AMTRAK	N/A

REFERENCES:
1. FOR ROADWAY PLANS SEE DWGS. RP-1 THRU RP-4.

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	CONTRACT 3					DIRECTIVE PLANS PROJECT LIMITS OF WORK - 3
	FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.	COUNTY: BRONX	REGION: 11			

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Department of Transportation

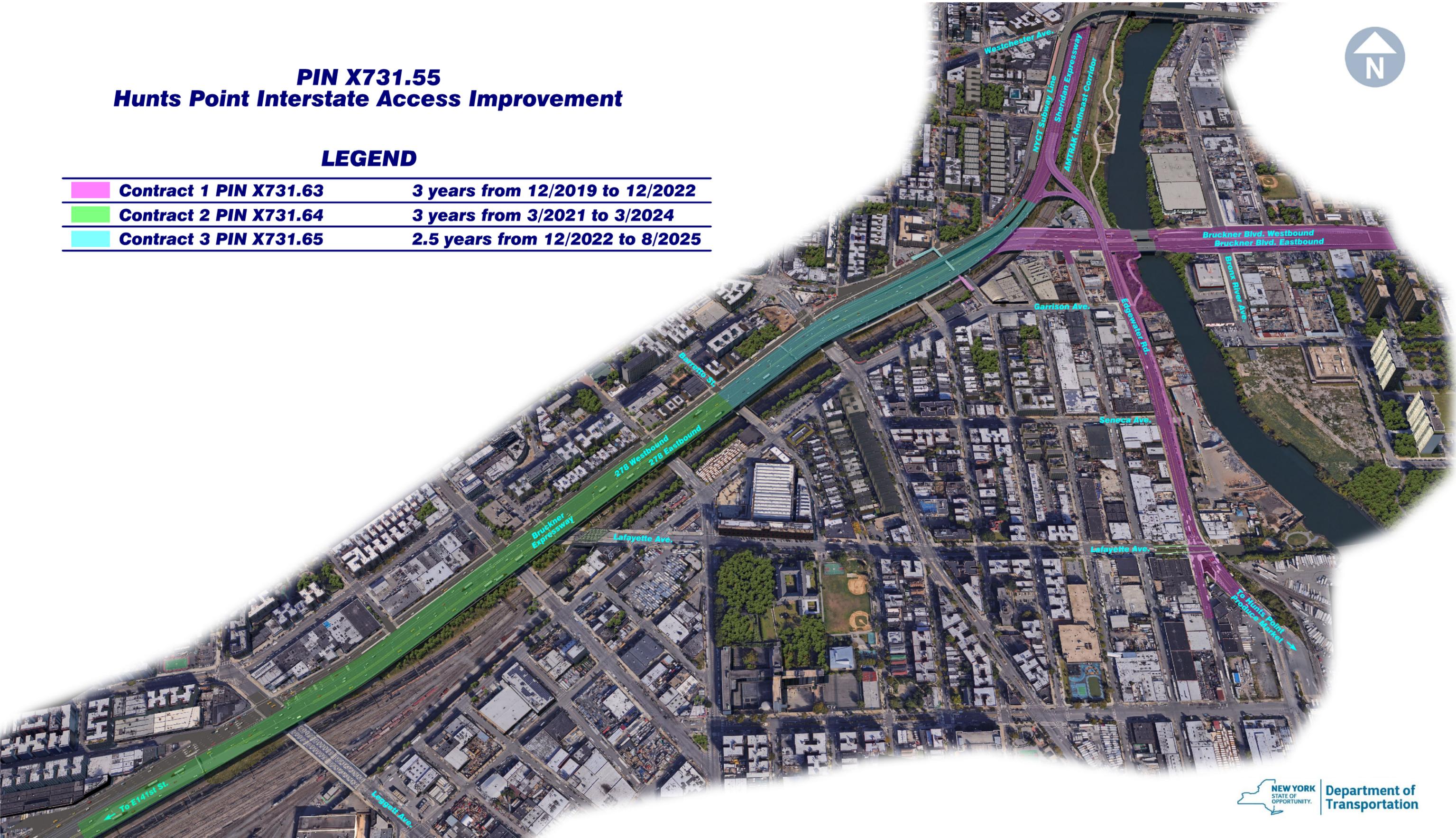
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Figure 3

PIN X731.55 Hunts Point Interstate Access Improvement

LEGEND

	Contract 1 PIN X731.63	3 years from 12/2019 to 12/2022
	Contract 2 PIN X731.64	3 years from 3/2021 to 3/2024
	Contract 3 PIN X731.65	2.5 years from 12/2022 to 8/2025



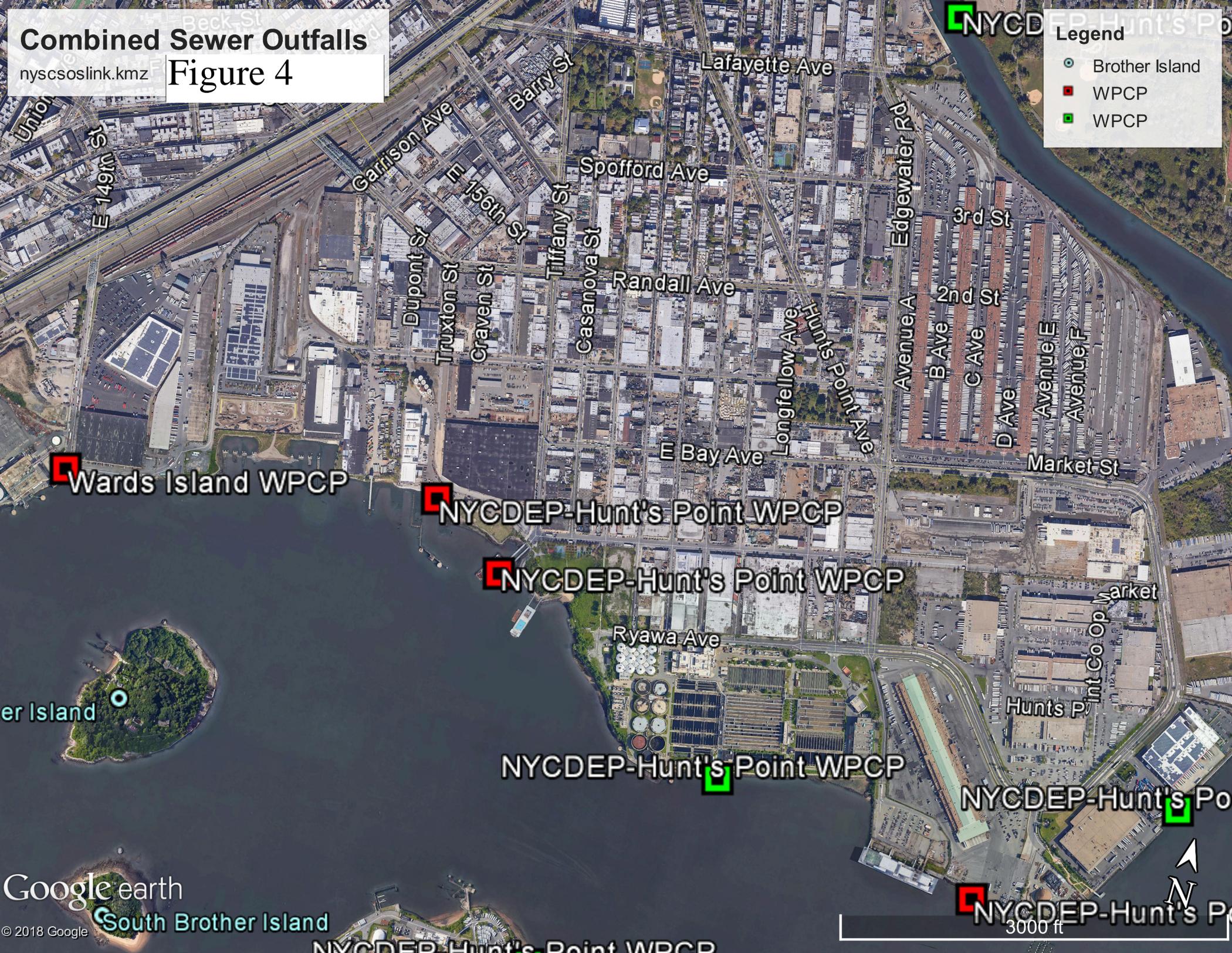
Combined Sewer Outfalls

Figure 4

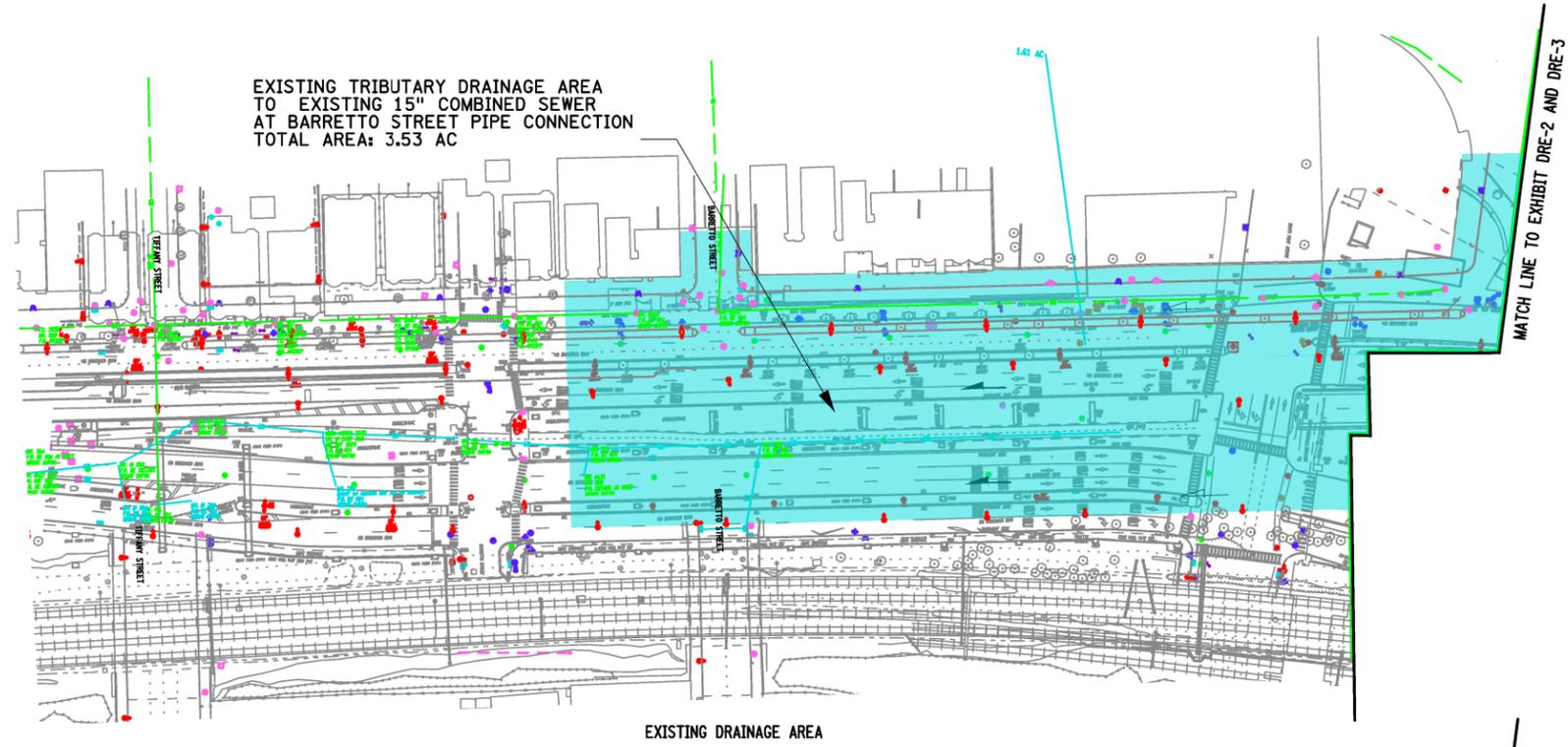
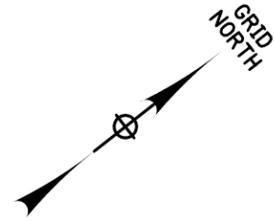
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Legend

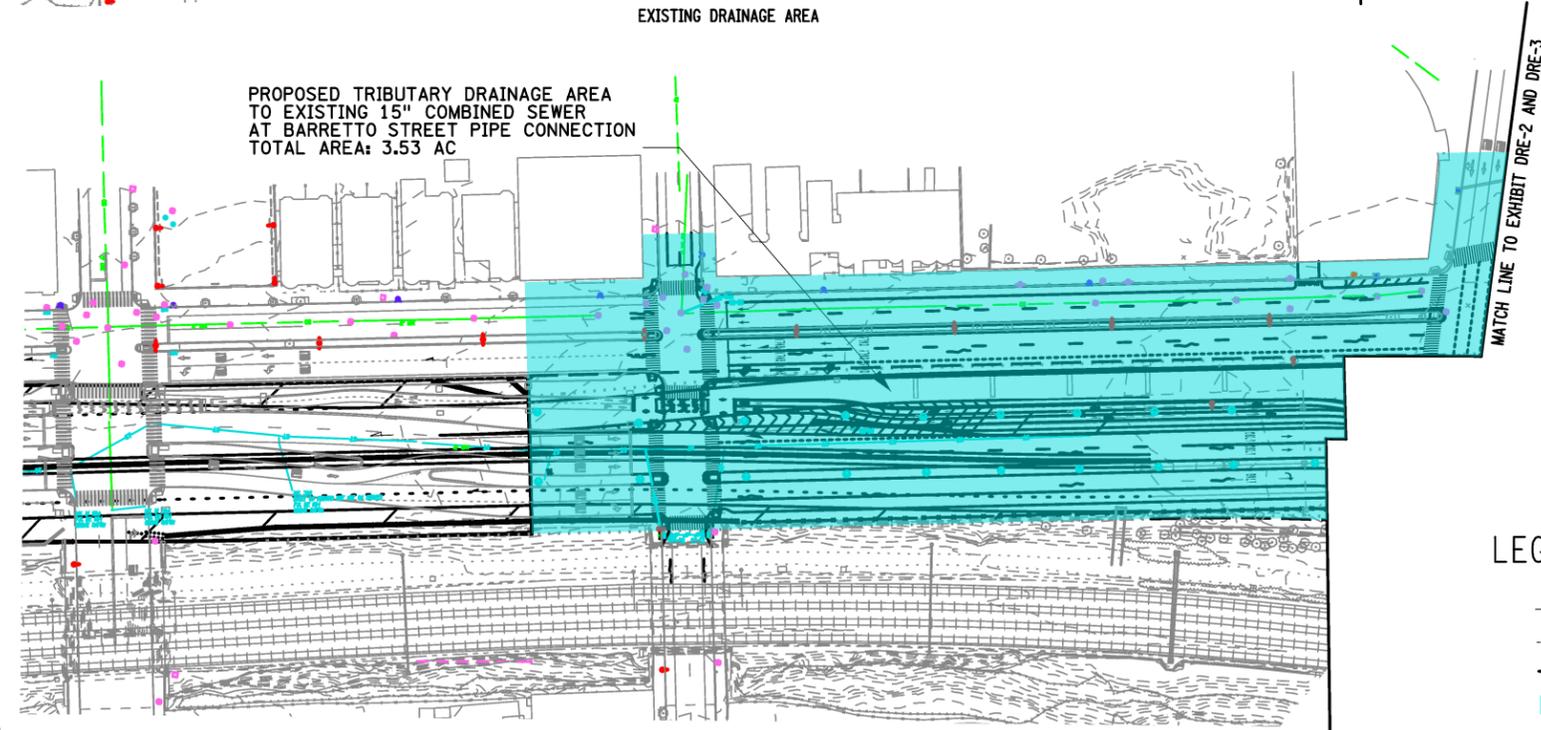
- Brother Island
- WPCP
- WPCP



Exhibits



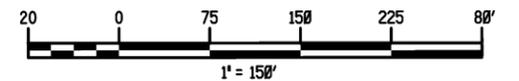
EXISTING DRAINAGE AREA



PROPOSED DRAINAGE AREA

LEGEND

- EXISTING SURFACE WATER FLOW (AT-GRADE)
- EXISTING SURFACE WATER FLOW (ON STRUCTURE)
- PROPOSED SURFACE WATER FLOW
- DRAINAGE AREA



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HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT
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FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.
COUNTY: BRONX REGION: 11

PIN X731.65
BRIDGES
CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
EXHIBIT DRE-1
NYCDEP SEWER AND NYS DOT DRAINAGE

CONTRACT NUMBER
D900055
DRAWING NO. DRE-1
SHEET NO.

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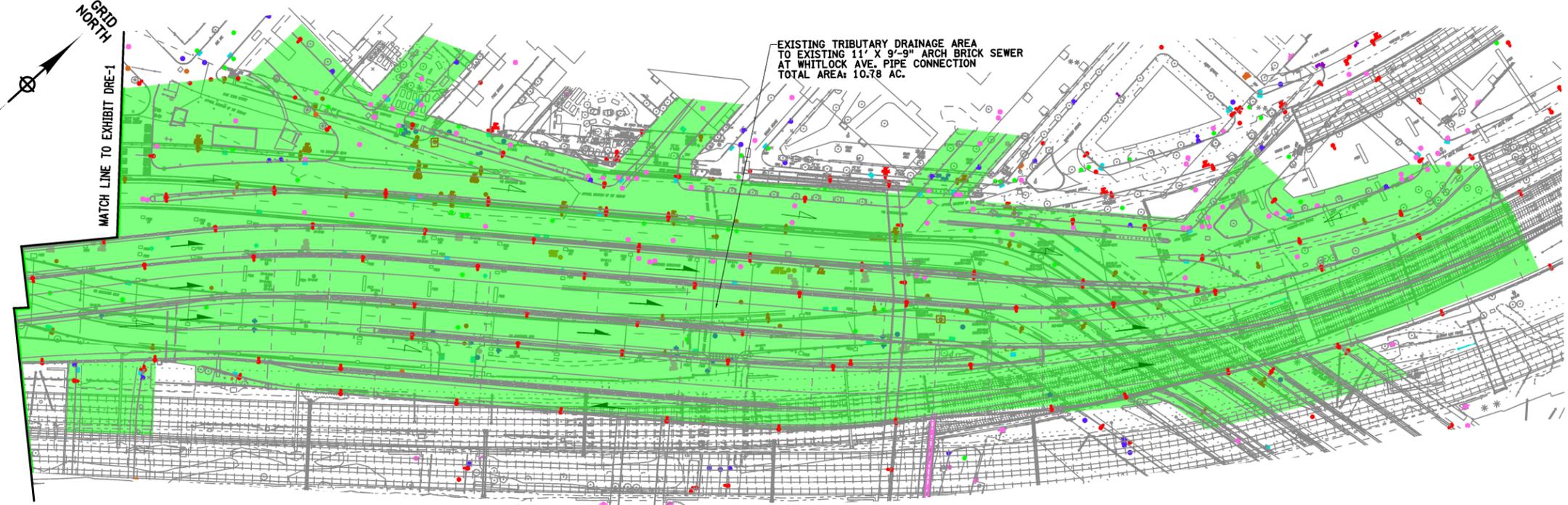
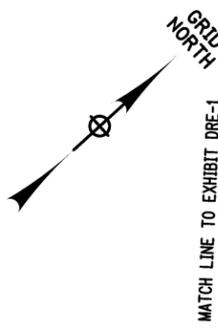


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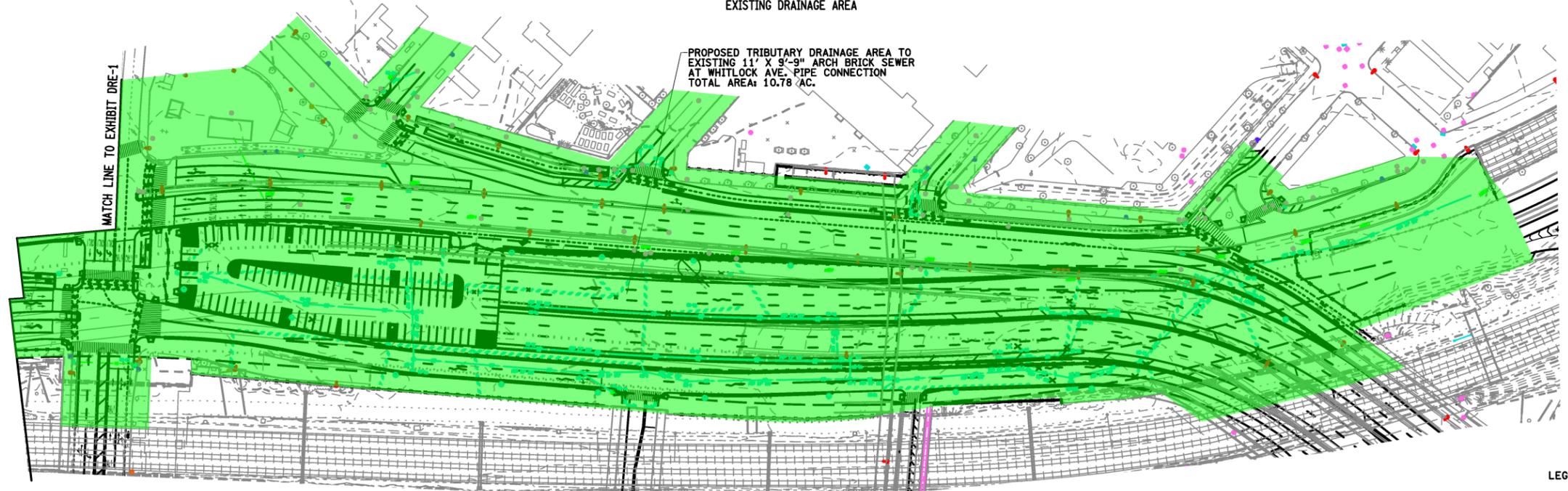
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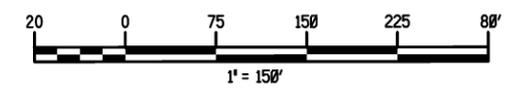


EXISTING DRAINAGE AREA



PROPOSED DRAINAGE AREA

- LEGEND**
- EXISTING SURFACE WATER FLOW (AT-GRADE)
 - EXISTING SURFACE WATER FLOW (ON STRUCTURE)
 - PROPOSED SURFACE WATER FLOW
 - DRAINAGE AREA



AFFIX SEAL: _____
 ON: _____

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AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT
 CONTRACT 3
 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.
 COUNTY: BRONX REGION: 11

PIN X731.65
 BRIDGES
 CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 EXHIBIT DRE-2
 NYCDEP SEWER AND NYSOT DRAINAGE

CONTRACT NUMBER
 D900055
 DRAWING NO. DRE-2
 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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PROJECT MANAGER

CHECK

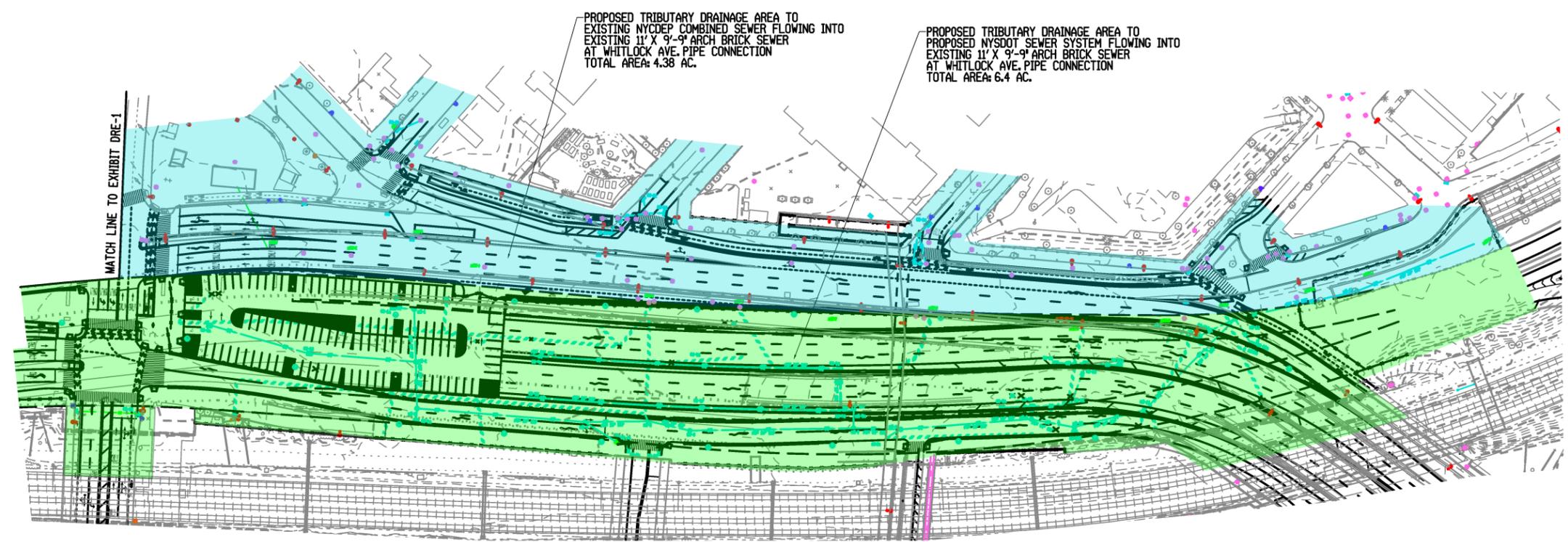
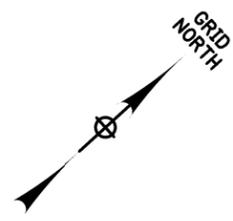
DRAFTING

CHECK

DESIGN

JOB MANAGER

DESIGN SUPERVISOR



PROPOSED DRAINAGE AREAS

LEGEND

- SURFACE WATER FLOW
- AREA FLOWING INTO EXISTING NYC DEP CSO
- AREA FLOWING INTO PROPOSED NYS DOT SEWER SYSTEM

AFFIX SEAL: ON: _____	ALTERED BY: ON: _____

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: _____ _____ _____	HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900055
	CONTRACT 3					EXHIBIT DRE-3 NYC DEP SEWER AND NYS DOT DRAINAGE
	FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.	COUNTY: BRONX	REGION: 11			
<p>IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</p>						
						Department of Transportation

Appendices

Appendix A – NYCDEP Sewer Schematic

(REDACTED)

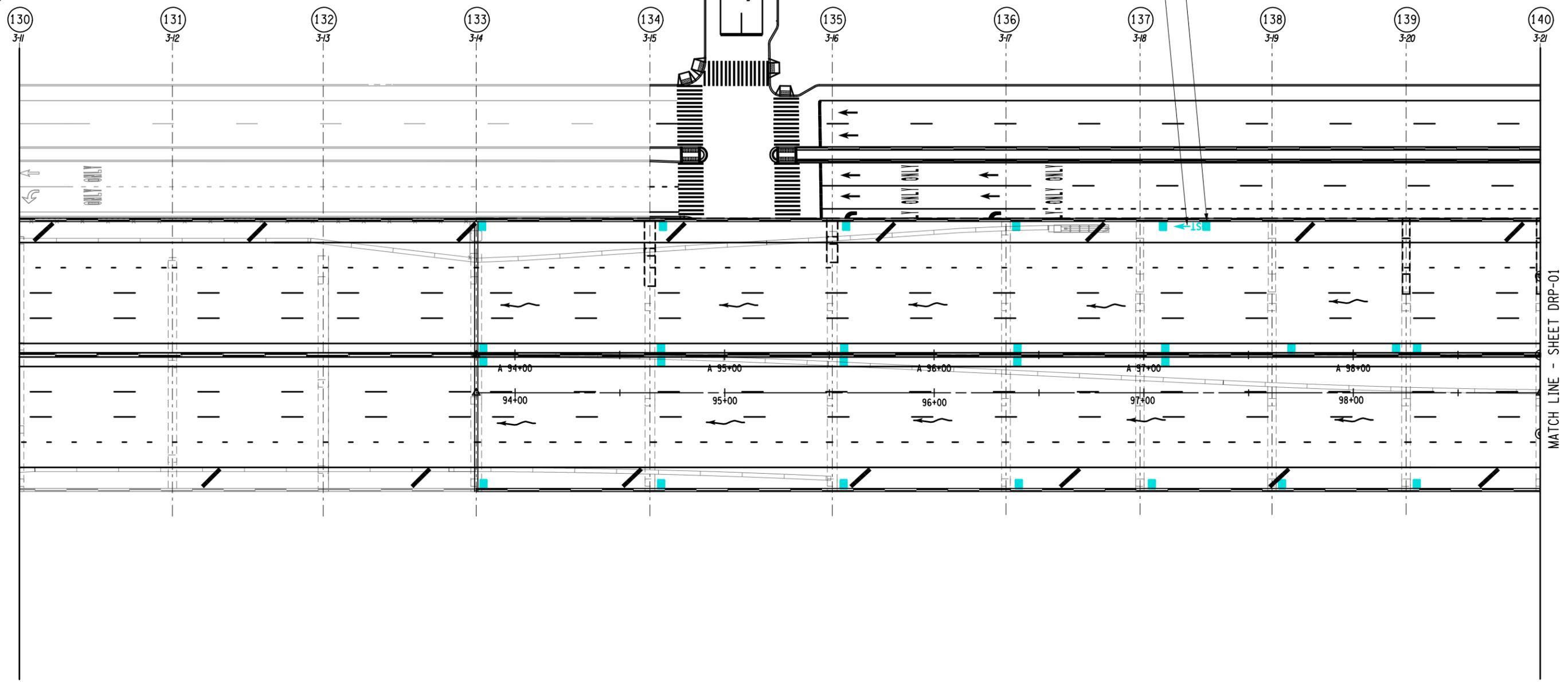
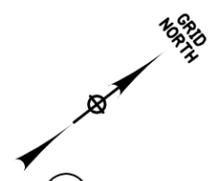
Appendix B – NYCDEP As-Builts

Appendix C – Contract 3 – Preliminary Drainage Plans

(REDACTED)

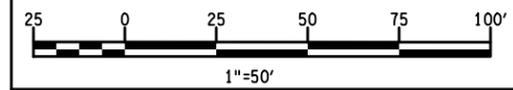
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 USER = bschneider

DESIGN SUPERVISOR _____ JOB MANAGER _____ DESIGN _____ CHECK _____ DRAFTING _____ CHECK _____ PROJECT MANAGER _____



MATCH LINE - SHEET DRP-01

- LEGEND:**
- SURFACE WATER FLOW ON BRUCKNER EXPRESSWAY (STRUCTURE)
 - NEW BENT NUMBER
 - OLD BENT NUMBER

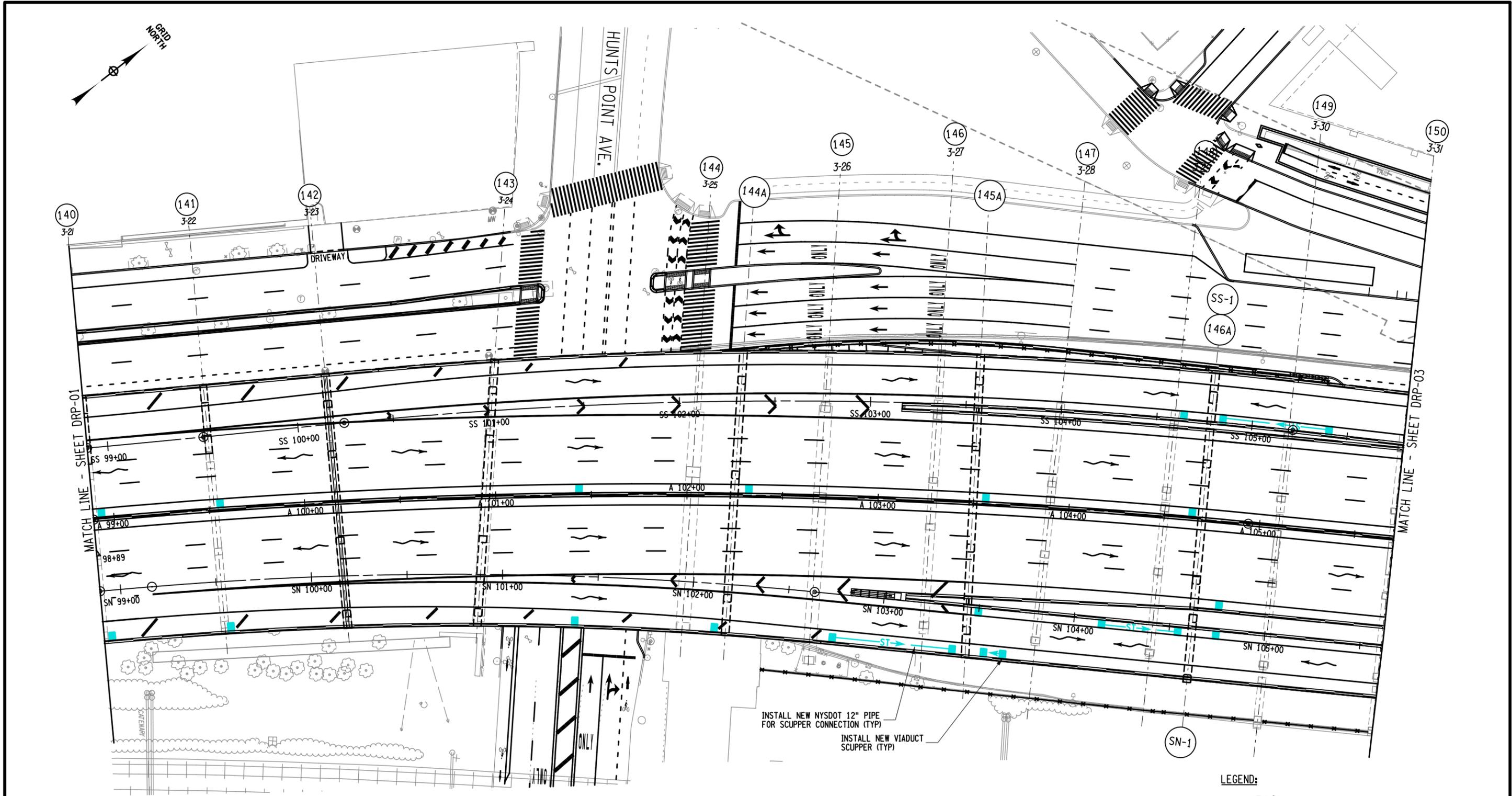


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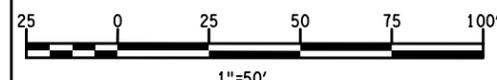
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900055
	CONTRACT 3	FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.				INDICATIVE PLANS UTILITY PLANS VIADUCT DRAINAGE
		COUNTY: BRONX	REGION: 11			
<p>IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.</p>						

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 USER = bschneider

DESIGN SUPERVISOR JOB MANAGER DESIGN CHECK DRAFTING CHECK PROJECT MANAGER



AFFIX SEAL: ON:	ALTERED BY: ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65
CONTRACT 3	
FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.	
COUNTY: BRONX	REGION: 11

BRIDGES	CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 INDICATIVE PLANS
 UTILITY PLANS
 VIADUCT DRAINAGE

CONTRACT NUMBER D900055
DRAWING NO. DRP-02 SHEET NO.

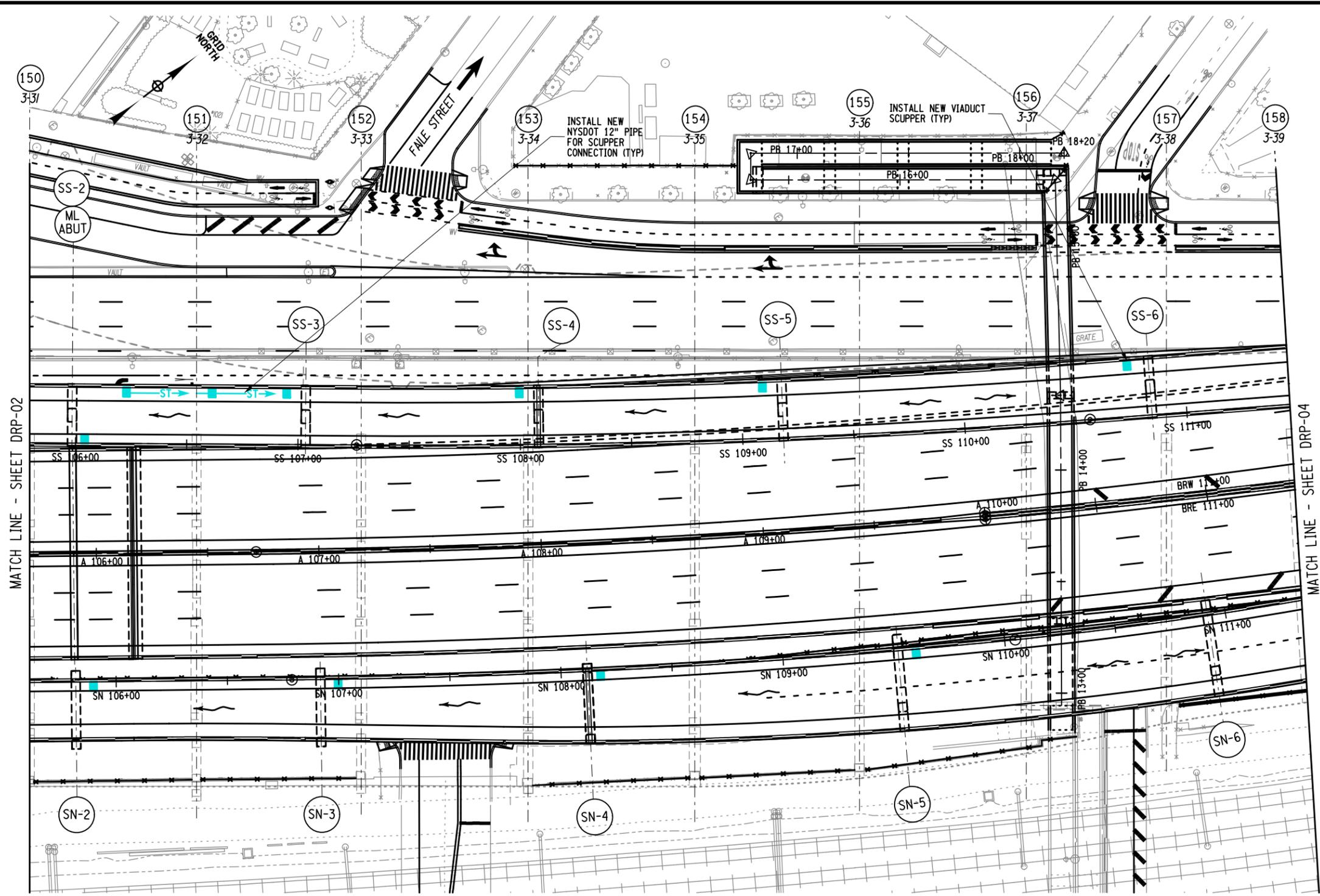
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- LEGEND:**
- SURFACE WATER FLOW ON BRUCKNER EXPRESSWAY (STRUCTURE)
 - NEW BENT NUMBER
 - OLD BENT NUMBER
 - APPROXIMATE LOCATION OF EXISTING IRT SUBWAY

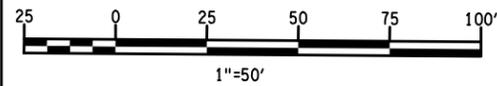


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 USER = bschneider

DESIGN SUPERVISOR JOB MANAGER DESIGN CHECK DRAFTING CHECK PROJECT MANAGER



- LEGEND:**
- SURFACE WATER FLOW ON BRUCKNER EXPRESSWAY (STRUCTURE)
 - NEW BENT NUMBER
 - OLD BENT NUMBER
 - APPROXIMATE LOCATION OF EXISTING IRT SUBWAY



AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

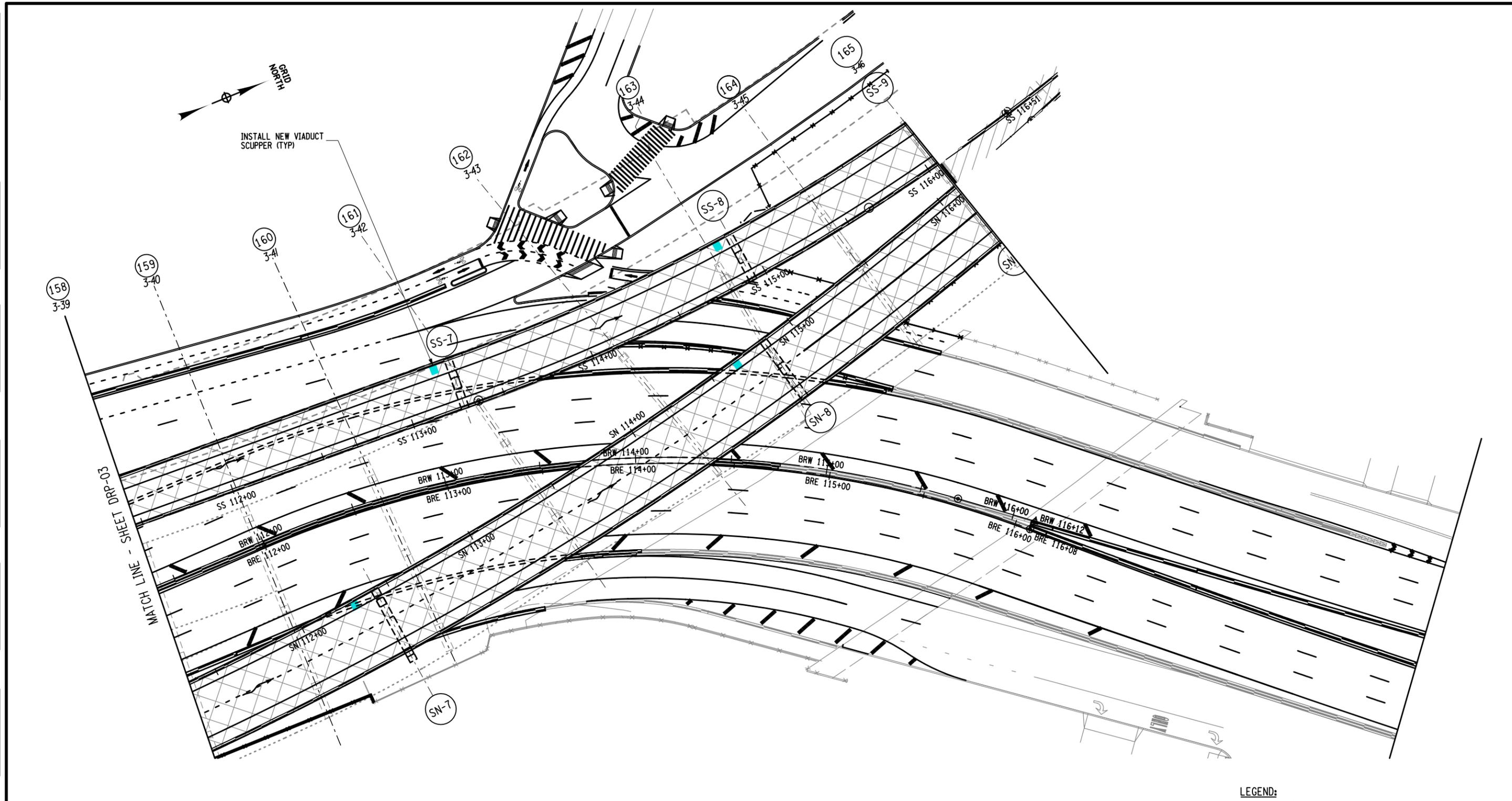
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HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900055
CONTRACT 3				INDICATIVE PLANS UTILITY PLANS VIADUCT DRAINAGE	DRAWING NO. DRP-03
FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.					SHEET NO.
COUNTY: BRONX	REGION: 11				

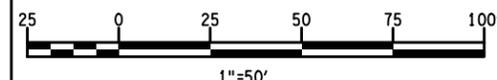


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DESIGN SUPERVISOR _____ JOB MANAGER _____ DESIGN _____ CHECK _____ DRAFTING _____ CHECK _____ PROJECT MANAGER _____



- LEGEND:**
- SURFACE WATER FLOW ON BRUCKNER EXPRESSWAY (STRUCTURE)
 - NEW BENT NUMBER
 - OLD BENT NUMBER
 - APPROXIMATE LOCATION OF EXISTING IRT SUBWAY



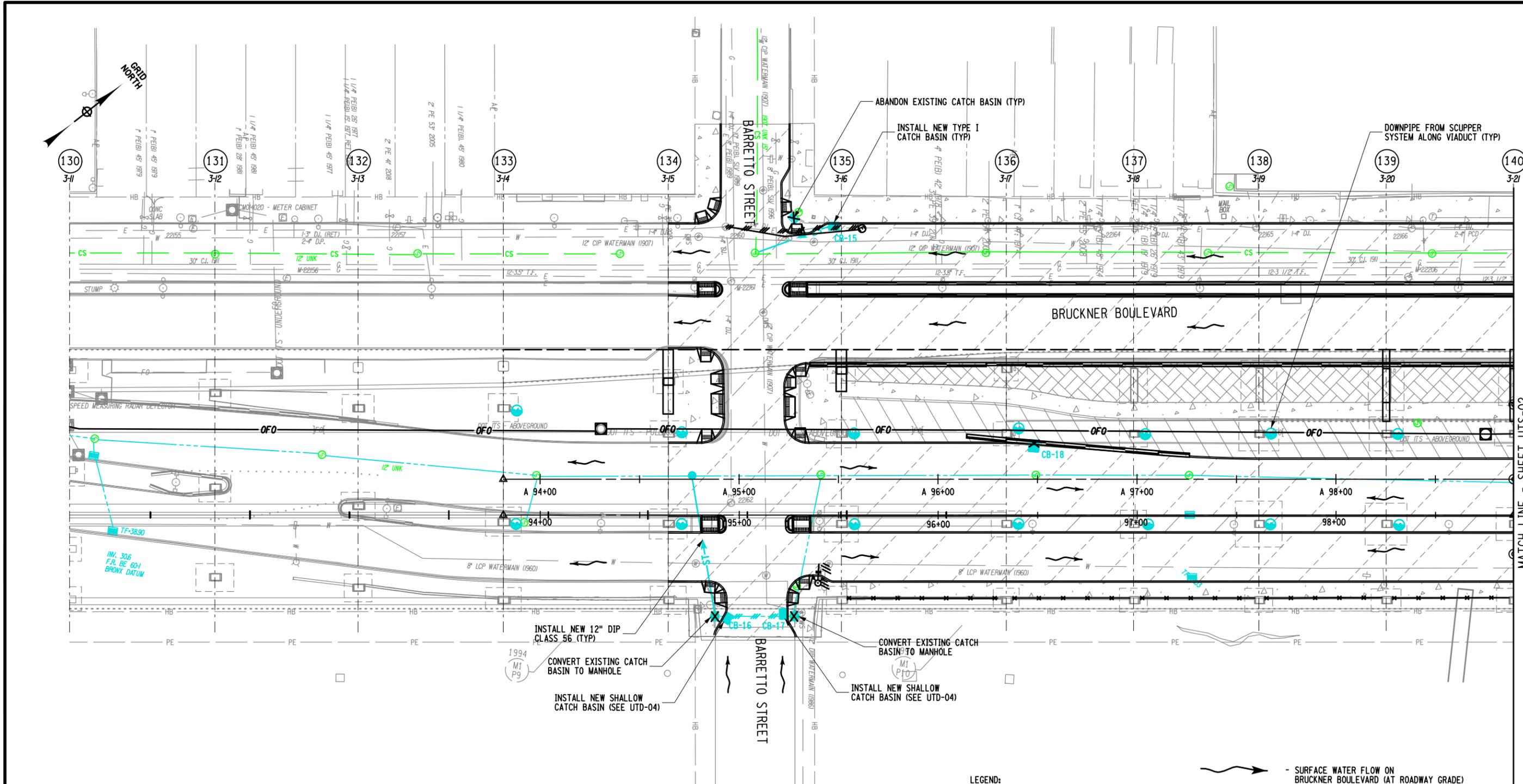
AFFIX SEAL: ON:	ALTERED BY: ON:

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900055
	CONTRACT 3	FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.				INDICATIVE PLANS UTILITY PLANS VIADUCT DRAINAGE
COUNTY: BRONX		REGION: 11	Department of Transportation			

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

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PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



MATCH LINE - SHEET UTS-02

NOTE:
 EXISTING NYCDEP FACILITIES WITHIN THE VICINITY OF THE PROJECT WILL BE SUPPORTED AND PROTECTED. SEE HC-140 FOR DETAILS.

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

THE EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS WAS DERIVED FROM EXISTING NYSDOT AS-BUILTS AND/OR UTILITY COMPANY PLATES OR RECORDS. THIS INFORMATION IS DESIGNATED AS QUALITY LEVEL D (QLD), UNLESS OTHERWISE INDICATED ON THE PLANS.

1"=50'

UTILITY LEGEND:

E	- ELECTRIC
FO	- FIBER OPTIC
F	- FIRE DEPT. COMMUNICATIONS
G	- GAS
T	- TELEPHONE
CS	- SANITARY OR COMBINED SEWER
ST	- STORM SEWER
W	- WATER

LEGEND:
 REFER TO ROADWAY PLANS FOR ADDITIONAL FEATURES (E.G. LANDSCAPE AREAS AND BICYCLE PATHS)

(43)	- NEW BENT NUMBER		- SURFACE WATER FLOW ON BRUCKNER BOULEVARD (AT ROADWAY GRADE)
21	- OLD BENT NUMBER		- APPROXIMATE LOCATION OF EXISTING IRT SUBWAY
	- PROPOSED CONCRETE SIDEWALK / MEDIAN		- PROPOSED NEW FENCE
	- PROPOSED ASPHALT MEDIAN		- PROPOSED CONCRETE BARRIER
			- CLEARING, GRUBBING AND PLACE GRAVEL
			- PROPOSED MILLING AND RESURFACING
			- PROPOSED PAVERS

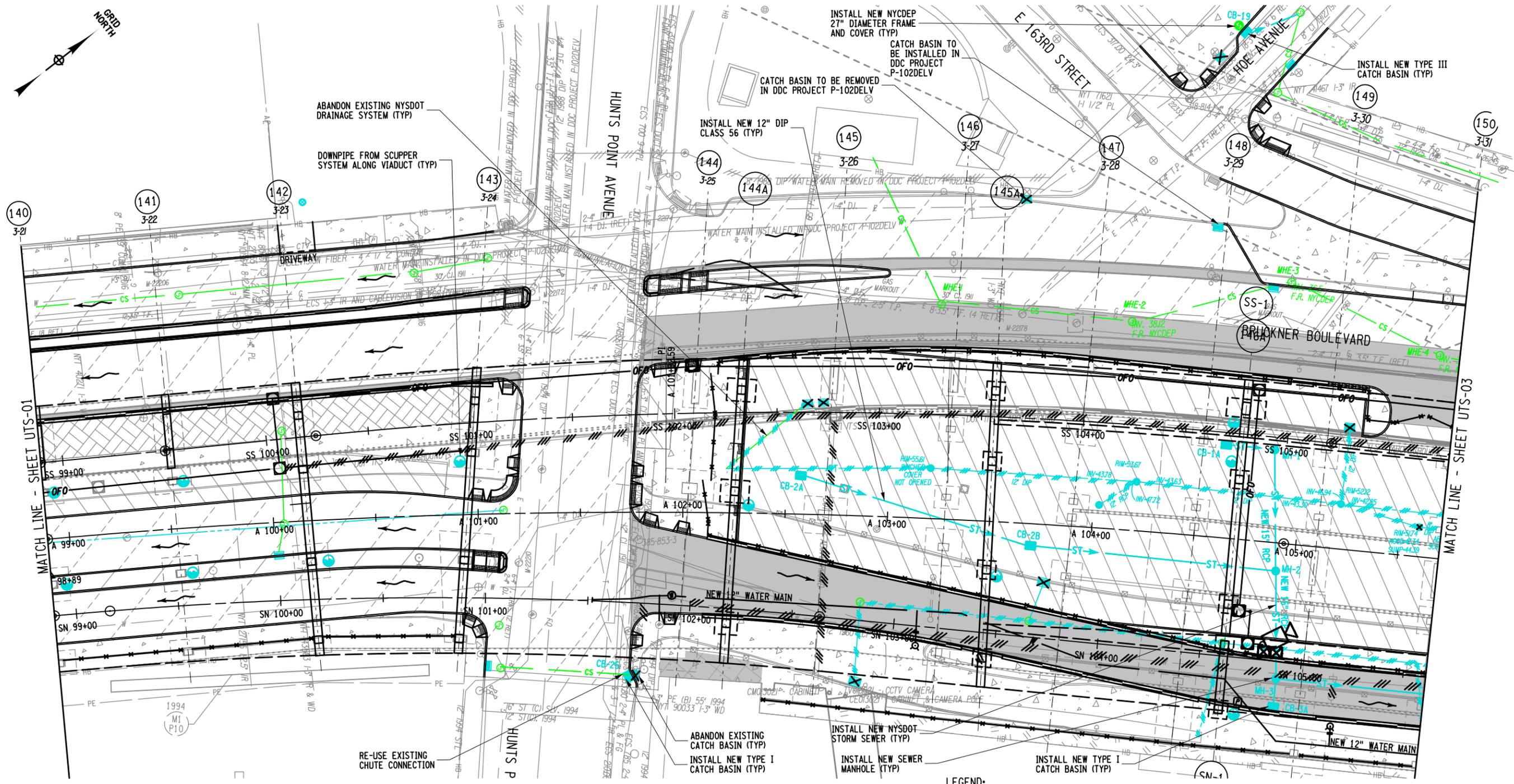
HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT CONTRACT 3 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD. COUNTY: BRONX REGION: 11	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED INDICATIVE PLANS UTILITY PLANS NYCDEP SEWER AND NYSDOT DRAINAGE	CONTRACT NUMBER D900055 DRAWING NO. UTS-01 SHEET NO.
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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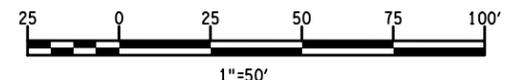
PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



NOTE:
 EXISTING NYCDP FACILITIES WITHIN THE VICINITY OF THE PROJECT WILL BE SUPPORTED AND PROTECTED. SEE HC-140 FOR DETAILS.

AFFIX SEAL: ON: _____
 ALTERED BY: ON: _____

THE EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS WAS DERIVED FROM EXISTING NYSDOT AS-BUILTS AND/OR UTILITY COMPANY PLATES OR RECORDS. THIS INFORMATION IS DESIGNATED AS QUALITY LEVEL D (QLD), UNLESS OTHERWISE INDICATED ON THE PLANS.



UTILITY LEGEND:

	- ELECTRIC
	- FIBER OPTIC
	- FIRE DEPT. COMMUNICATIONS
	- GAS
	- TELEPHONE
	- SANITARY OR COMBINED SEWER
	- STORM SEWER
	- WATER

LEGEND:
 REFER TO ROADWAY PLANS FOR ADDITIONAL FEATURES (E.G. LANDSCAPE AREAS AND BICYCLE PATHS)

	- NEW BENT NUMBER
	- OLD BENT NUMBER
	- PROPOSED CONCRETE SIDEWALK / MEDIAN
	- PROPOSED ASPHALT MEDIAN
	- SURFACE WATER FLOW ON BRUCKNER BOULEVARD (AT ROADWAY GRADE)
	- APPROXIMATE LOCATION OF EXISTING IRT SUBWAY
	- PROPOSED NEW FENCE
	- PROPOSED CONCRETE BARRIER
	- CLEARING, GRUBBING AND PLACE GRAVEL
	- PROPOSED MILLING AND RESURFACING
	- PROPOSED PAVERS

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65
CONTRACT 3	BRIDGES
FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.	CULVERTS
COUNTY: BRONX	REGION: 11

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

INDICATIVE PLANS UTILITY PLANS NYCDP SEWER AND NYSDOT DRAINAGE	
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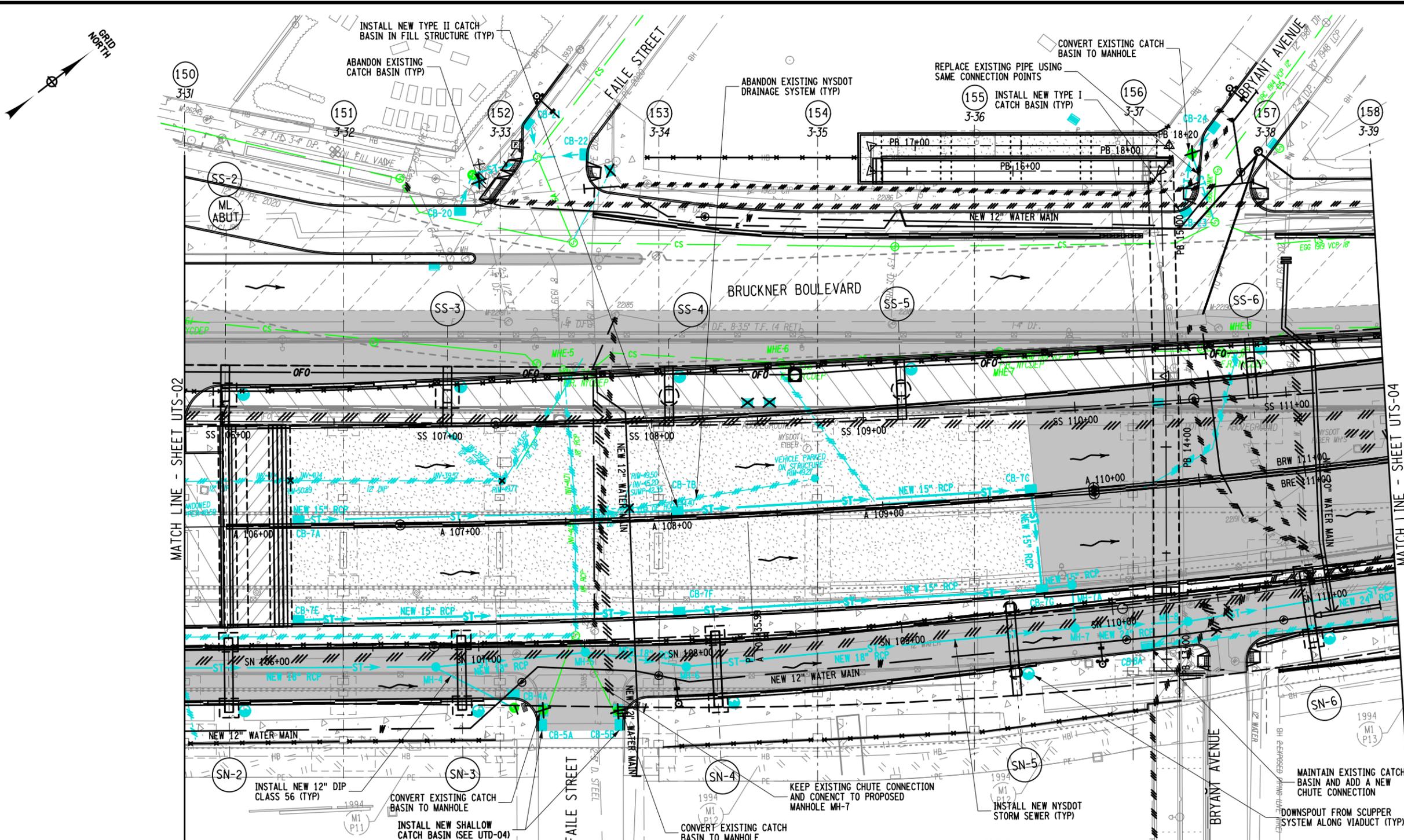
CONTRACT NUMBER D900055
DRAWING NO. UTS-02 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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 USER = mmatarlo

PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



NOTE:
 EXISTING NYCDEP FACILITIES WITHIN THE VICINITY OF THE PROJECT
 WILL BE SUPPORTED AND PROTECTED. SEE HC-140 FOR DETAILS.

THE EXISTING UTILITY INFORMATION SHOWN
 ON THESE PLANS WAS DERIVED FROM
 EXISTING NYSOT AS-BUILTS AND/OR UTILITY
 COMPANY PLATES OR RECORDS. THIS
 INFORMATION IS DESIGNATED AS
 QUALITY LEVEL D (QLD), UNLESS OTHERWISE
 INDICATED ON THE PLANS.

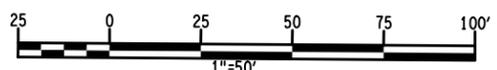
UTILITY LEGEND:

—E—	ELECTRIC
—FO—	FIBER OPTIC
—F—	FIRE DEPT. COMMUNICATIONS
—G—	GAS
—TEL—	TELEPHONE
—SC—	SANITARY OR COMBINED SEWER
—ST—	STORM SEWER
—W—	WATER

LEGEND:
 REFER TO ROADWAY PLANS FOR ADDITIONAL FEATURES
 (E.G. LANDSCAPE AREAS AND BICYCLE PATHS)

(43)	NEW BENT NUMBER
2-1	OLD BENT NUMBER
[Symbol]	PROPOSED CONCRETE SIDEWALK / MEDIAN
[Symbol]	PROPOSED ASPHALT MEDIAN

[Symbol]	SURFACE WATER FLOW AT ROADWAY GRADE
[Symbol]	PROPOSED NEW FENCE
[Symbol]	PROPOSED CONCRETE BARRIER
[Symbol]	CLEARING, GRUBBING AND PLACE GRAVEL
[Symbol]	PROPOSED MILLING AND RESURFACING
[Symbol]	APPROXIMATE LOCATION OF EXISTING IRT SUBWAY
[Symbol]	PROPOSED PAVEMENT RECONSTRUCTION
[Symbol]	PROPOSED FILL AREA



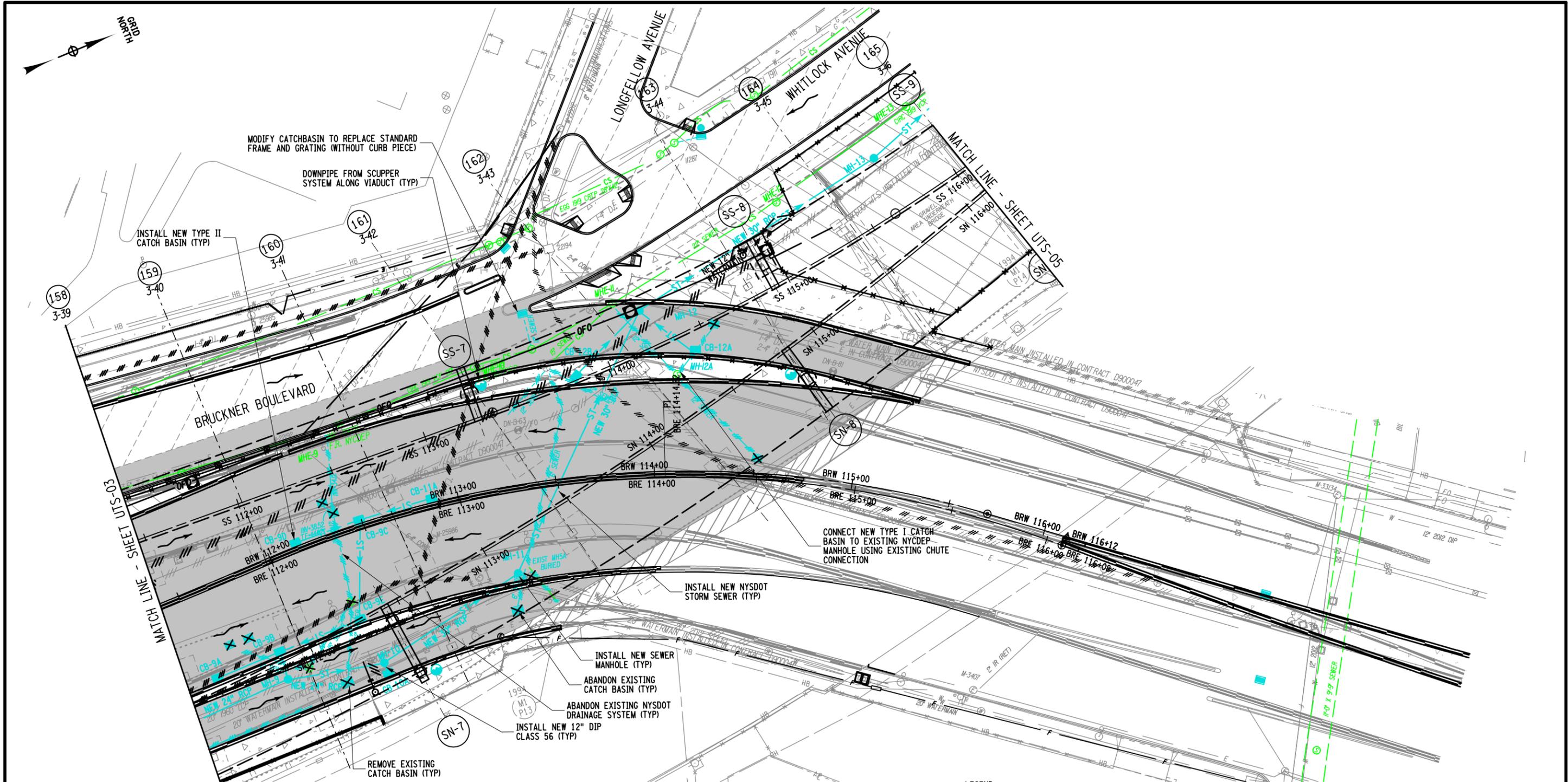
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT CONTRACT 3 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD. COUNTY: BRONX REGION: 11	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900055
					INDICATIVE PLANS UTILITY PLANS NYCDEP SEWER AND NYSOT DRAINAGE	DRAWING NO. UTS-03 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



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 DATE/TIME = Friday, May 13, 2022 09:49:16 AM
 USER = bschneider

PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



NOTE:
 EXISTING NYCDEP FACILITIES WITHIN THE VICINITY OF THE PROJECT
 WILL BE SUPPORTED AND PROTECTED. SEE HC-140 FOR DETAILS.

AFFIX SEAL: ON: _____
 ALTERED BY: ON: _____

THE EXISTING UTILITY INFORMATION SHOWN
 ON THESE PLANS WAS DERIVED FROM
 EXISTING NYSDOT AS-BUILTS AND/OR UTILITY
 COMPANY PLATES OR RECORDS. THIS
 INFORMATION IS DESIGNATED AS
 QUALITY LEVEL D (QLD), UNLESS OTHERWISE
 INDICATED ON THE PLANS.



- UTILITY LEGEND:
- e — - ELECTRIC
 - fo — - FIBER OPTIC
 - f — - FIRE DEPT. COMMUNICATIONS
 - g — - GAS
 - tl — - TELEPHONE
 - sa — - SANITARY OR COMBINED SEWER
 - st — - STORM SEWER
 - w — - WATER

LEGEND:
 REFER TO ROADWAY PLANS FOR ADDITIONAL FEATURES
 (E.G. LANDSCAPE AREAS AND BICYCLE PATHS)

- (43) - NEW BENT NUMBER
- 2-1 - OLD BENT NUMBER
- [Symbol] - PROPOSED CONCRETE SIDEWALK / MEDIAN
- [Symbol] - PROPOSED ASPHALT MEDIAN
- [Symbol] - PROPOSED NEW FENCE
- [Symbol] - PROPOSED CONCRETE BARRIER
- [Symbol] - CLEARING, GRUBBING AND PLACE GRAVEL
- [Symbol] - PROPOSED MILLING AND RESURFACING
- [Symbol] - SURFACE WATER FLOW AT ROADWAY GRADE
- [Symbol] - APPROXIMATE LOCATION OF EXISTING IRT SUBWAY
- [Symbol] - PROPOSED PAVEMENT RECONSTRUCTION
- [Symbol] - PROPOSED APPROACH SLAB

AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT
 CONTRACT 3
 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.
 COUNTY: BRONX REGION: 11

PIN X731.65
 BRIDGES
 CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 INDICATIVE PLANS
 UTILITY PLANS
 NYCDEP SEWER AND NYSDOT DRAINAGE

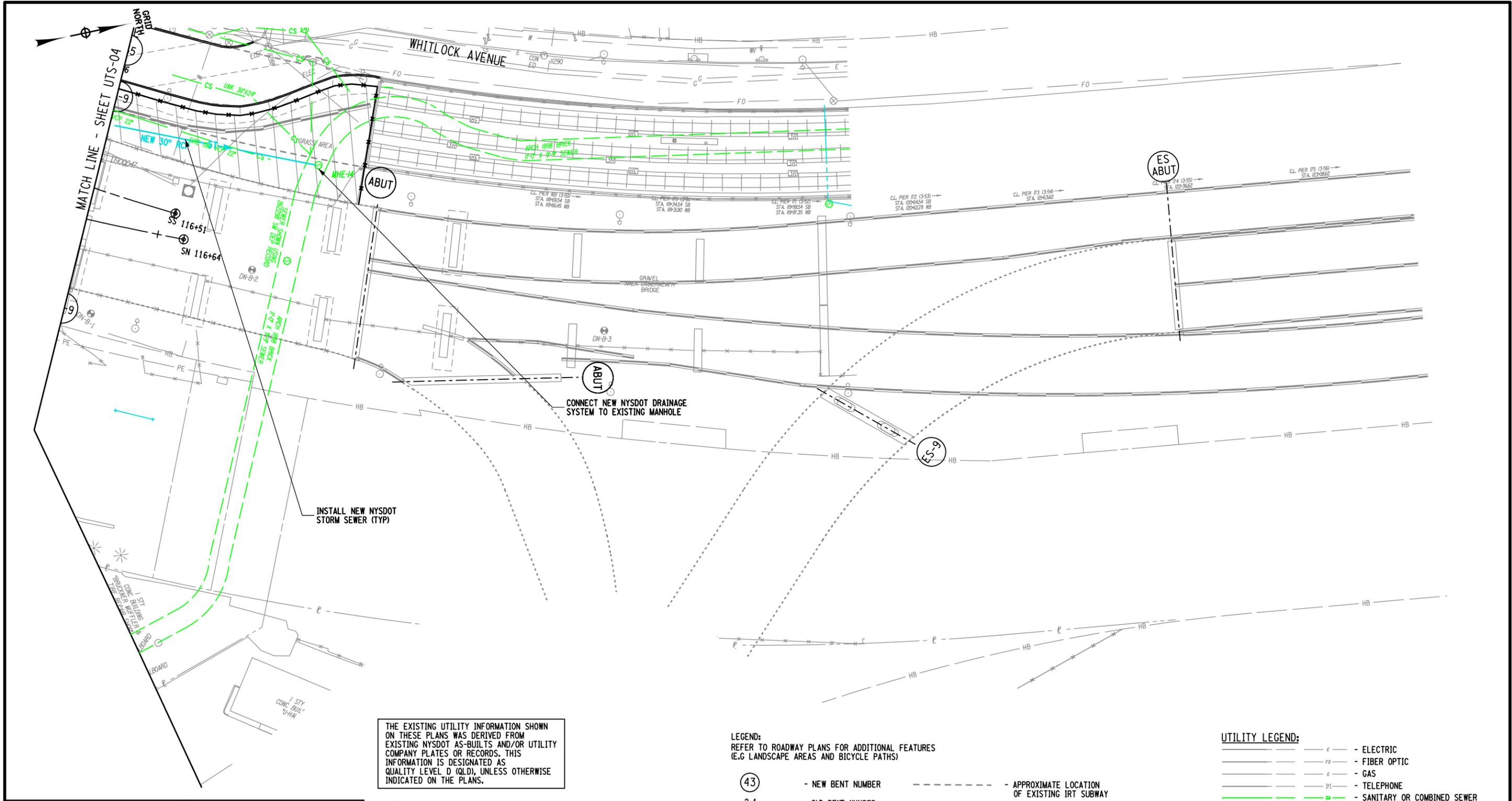
CONTRACT NUMBER
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 DRAWING NO. UTS-04
 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



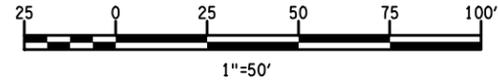
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 USER = mmatarlo

PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



THE EXISTING UTILITY INFORMATION SHOWN ON THESE PLANS WAS DERIVED FROM EXISTING NYSOT AS-BUILTS AND/OR UTILITY COMPANY PLATES OR RECORDS. THIS INFORMATION IS DESIGNATED AS QUALITY LEVEL D (QLD), UNLESS OTHERWISE INDICATED ON THE PLANS.

NOTE: EXISTING FACILITIES WITHIN THE VICINITY OF THE PROJECT WILL BE SUPPORTED AND PROTECTED. SEE HC-140 FOR DETAILS.



LEGEND:
 REFER TO ROADWAY PLANS FOR ADDITIONAL FEATURES (E.G. LANDSCAPE AREAS AND BICYCLE PATHS)

- (43) - NEW BENT NUMBER
- 2-1 - OLD BENT NUMBER
- [Hatched Box] - PROPOSED ASPHALT MEDIAN
- - APPROXIMATE LOCATION OF EXISTING IRT SUBWAY
- x---x--- - PROPOSED NEW FENCE
- == - PROPOSED CONCRETE BARRIER

- UTILITY LEGEND:**
- - - - - E - ELECTRIC
 - - - - - FO - FIBER OPTIC
 - - - - - G - GAS
 - - - - - T - TELEPHONE
 - - - - - SA - SANITARY OR COMBINED SEWER
 - - - - - ST - STORM SEWER
 - - - - - W - WATER

AFFIX SEAL: ON: _____
 ALTERED BY: ON: _____

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900055
	CONTRACT 3				INDICATIVE PLANS UTILITY PLANS NYCEP SEWER AND NYSOT DRAINAGE	DRAWING NO. UTS-05
	FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.					SHEET NO.
	COUNTY: BRONX	REGION: 11				

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



FILE NAME = pwr/.../X73165.Hunts Point Truck Access - Contract 3/CAD/02 Dewberry/Civil/UTIL/X73165_CPH_UTR_01.dgn
 DATE/TIME = Wednesday, May 11, 2022 09:57:50 AM
 USER = mmatarlo

PROJECT MANAGER

CHECK

DRAFTING

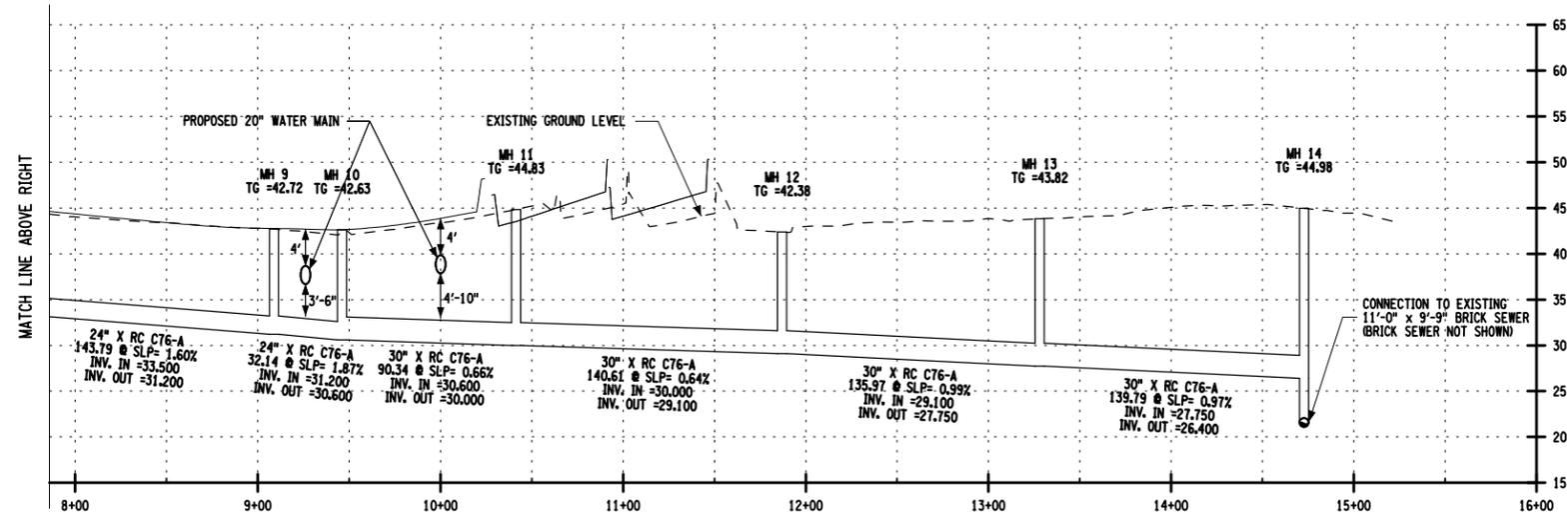
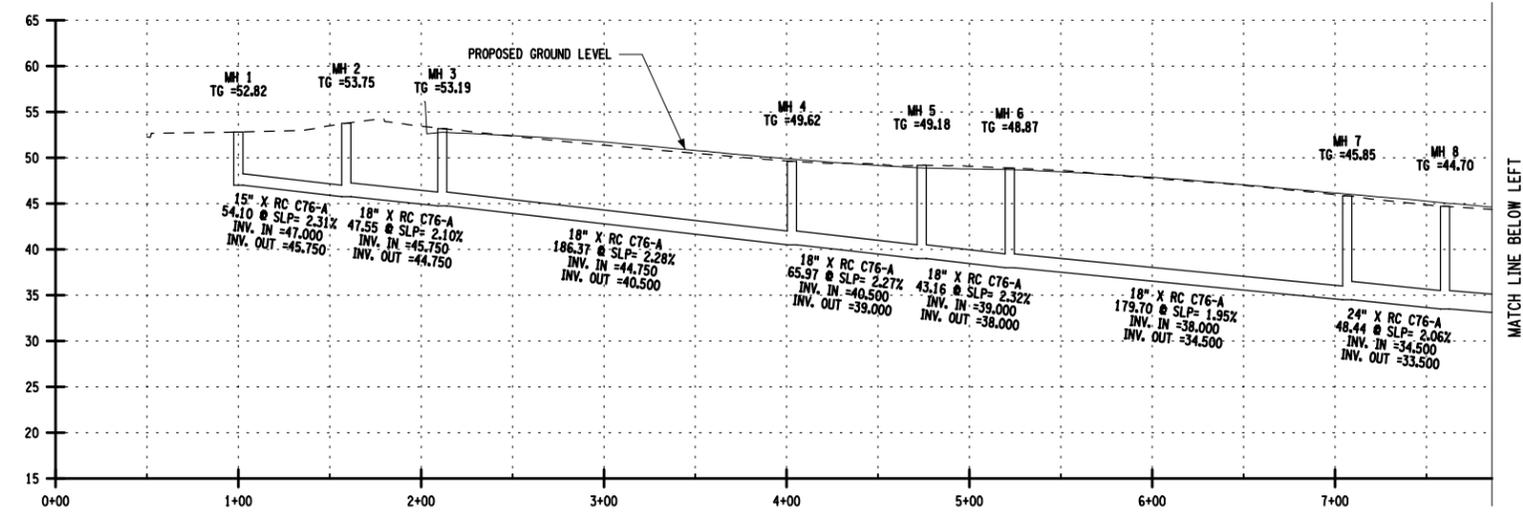
CHECK

DESIGN

JOB MANAGER

DESIGN SUPERVISOR

MH-1 TO MH-14



AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

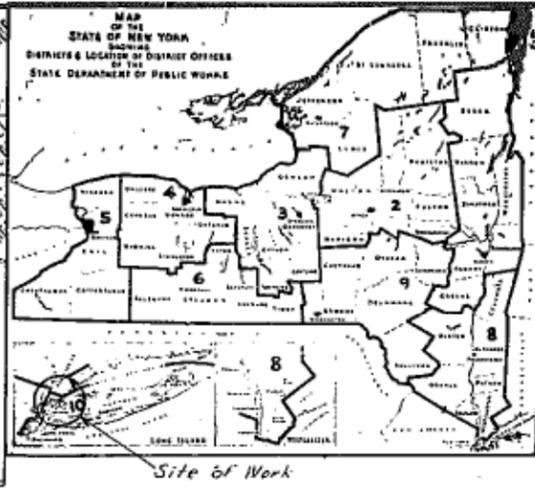


HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT CONTRACT 3 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD. COUNTY: BRONX REGION: 11		PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED INDICATIVE PLANS SEWER PROFILE NYS DOT SEWER	CONTRACT NUMBER D900055 DRAWING NO. UTR-01 SHEET NO.
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						

NOTES:
 THE EXISTING AND PROPOSED INVERTS SHOWN USE THE NAVD 88 DATUM.



Appendix D – As-Built Records for Contract BE 60-1



STATE OF NEW YORK DEPARTMENT OF PUBLIC WORKS DIVISION OF CONSTRUCTION

PLANS FOR CONSTRUCTING WITH FEDERAL AID A PORTION OF THE INTERSTATE ROUTE CONNECTION 516 & 517, BRUCKNER EXPRESSWAY (Section 1 - Contract 3), (Lafayette Ave. - Lowell St.)

245 SHEETS

F.A. PROJECT NO. 1-278-1 (48)

CONTRACT NO. F.I.B.E. 60-1

BRONX COUNTY

Table with columns: FED. RD. DIV. NO., STATE, FED. AID PROJ. NO., FISCAL YEAR, SHEET NO., TOTAL SHEETS. Values: 1, N.Y., 1-278-1(48), 18, 245.

BRUCKNER EXPRESSWAY SECTION 1

TYPE OF CONSTRUCTION: Reinf. Concrete Slab Roadway (Main Line) 0.78 Mile, Colored Cement Concrete Pavement (M.L.) 0.07 Mile

This Contract also contains 1.73 miles of Access Ramps, Surface Roads and Intersections of which 0.56 mile is Cem. Conc. Pavement and 1.17 miles is Asphalt Concrete Pavement

Including: Structural Steel Viaduct, 57 Spans, Total Length 1118' Bryant Ave. Foot Bridge, Welded Girder & W. F. Beam Bridge, 4 Spans, 1 @ 53' 11", 1 @ 124' 4", 1 @ 11' 7", 1 @ 110' 7", c. to c. bearings

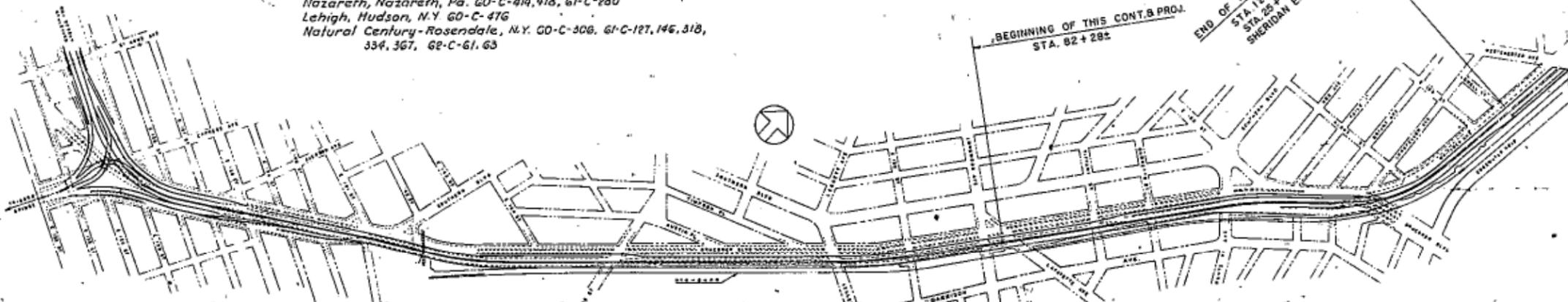
STANDARD STRUCTURE SHEETS: 46-4, 51-21, 54-18P, 54-45, 56-1, 56-43R, 58-1, 58-3R2, 58-17R1, 58-45A, 58-60, 59-7, 59-11CR1, 59-11R1, 59-11WR1, 59-19, 59-48A, 59-48B, 59-48D1, 59-48D2, 59-48XR2, 60-3A, 60-48C, 60-44, 60-48E, 60-48F

All work contemplated under this contract to be covered by and in conformity with the specifications adopted January 2, 1957, except as modified on these plans and in the Itemized Proposal.

Table with columns: DATE OF CONTRACT, TYPE, MEAS. LENGTH, LENGTH IN MILES, THICKNESS OF PAVEMENT, WIDTH METAL RC/SW, SQ. FT. OF PAVEMENT, SQ. YDS. OF PAVEMENT, CU YDS. OF PAVEMENT, SOURCE & TEST NUMBER MATERIALS, CONTRACTORS SLATTERY CONTRACTING CORP.

DESIGN TRAFFIC DATA: DESIGN CLASS II, ESTIMATED 1975 TRAFFIC D.H. 4000, A.A.D.T. 40000

SOURCE AND TEST NUMBER OF CEMENT: Hudson Cement Corp., Kingston, N.Y. 60-C-321, 322, 361, 362, 345, 382, 400, 407, 422, 445, 435, 458, 459, 456, 469, 470, 460, 9, 472, 61-C-23, 27, 37, 53, 69, 80, 95, 90, 88, 106, 119, 122, 194, 217, 168, 36, 226, 155, 266, 16, 237, 249, 284, 255, 295, 317, 326, 341, 241, 357, 361, 376, 380, 384, 387, 391, 395, 295, 62-C-2, 3, 32, 33, 46, 47, 59, 63, 62, 79, 81, North American, Alsen, N.Y. 60-C-191, 344, 371, 233, 471, Lone Star, Hudson, N.Y. 60-C-140, 478, 61-C-338, 289, 377, 62-C-83, Pioneer, Brodhead, Pa. 60-C-331, 486, 61-C-209, 62-C-100, 128, Hercules, Stockertown, Pa. 60-C-286, Nazareth, Nazareth, Pa. 60-C-414, 478, 61-C-280, Lehigh, Hudson, N.Y. 60-C-476, Natural Century-Rosendale, N.Y. 60-C-306, 61-C-127, 146, 318, 334, 367, 62-C-61, 63



SPECIAL NOTE: Wherever Item 29R appears on the plans, Item 29AS shall apply. Wherever Item 10RX appears on the plans, Item 10RY shall apply.

"RELOCATIONS OR CHANGES TO THE CITY OWNED UTILITIES SHOWN IN THESE PLANS DO NOT INVOLVE A MAJOR OR INDEPENDENT SEGMENT OF THE OVER-ALL CITY UTILITY SYSTEMS."

APPROVED ARTHUR S. HODGKISS, March 31, 1960, ASSISTANT TO THE CONSTRUCTION COORDINATOR, CITY OF NEW YORK

APPROVED AT THE MEETING OF THE BOARD OF ESTIMATE OF THE CITY OF NEW YORK HELD ON THE DAY OF CAL. NO. PURSUANT TO THE PROVISIONS OF CHAPTER 619 OF THE LAWS OF 1945 AS AMENDED BY CHAPTER 352 OF THE LAWS OF 1947

PREPARED AND RECOMMENDED BY HOWARD, NEEDLES, TAMMEN & BERGENOFF CONSULTING ENGINEERS

APPROVED ROBERT MOSES, March 31, 1960, CONSTRUCTION COORDINATOR, CITY OF NEW YORK

THIS SET OF MICROFILM SHOT FROM WHITE PAPER PRINTS. RECOMMENDED BY E. J. Mc Ginnis, April 12, 1960, ASST. DISTRICT ENGINEER, DISTRICT #10

APPROVED C.F. BLANCHARD, May 18, 1960, CHIEF ENGINEER

APPROVED JOHN J. RAYMOND, May 13, 1960, CHIEF ENGINEER

APPROVED HENRY TEN HAGEN, May 19, 1960, CHIEF ENGINEER

DEPARTMENT OF COMMERCE BUREAU OF PUBLIC ROADS. RECOMMENDED FOR APPROVAL. ASST. DIVISION ENGINEER. DATE

SHEETS 1-198 SEPARATE (SHEETS 199-245) BAR LIST

CONTRACT NO. 3				
FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	2-278-1(A)	2	245
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.				

1	TITLE SHEET	95
2	LIST OF DRAWINGS	95
3	PLAN OF CONTRACT	97
4	GENERAL NOTES AND LEGEND	98
5, 6	TABLES OF ROADWAY QUANTITIES	99, 100, 101
7	TABLES OF DRAINAGE STRUCTURES	102
8	TABLES OF ELEVATED EXPRESSWAY QUANTITIES & SHEET PILING	103
9	GENERAL PLAN AND PROFILE - STA. 82+25 TO 91+14	104
10	" " " " - STA. 91+14 TO 10+85	105
11	" " " " - STA. 10+85 TO 119+00	106
12	" " " " - STA. 119+00 TO 127+71	107
13	TABLES OF ALIGNMENT	108
14	TABLE OF PIER LOCATIONS	109
15	PROFILE - NORTHBOUND EXPRESSWAY	110
16	" - SOUTHBOUND EXPRESSWAY	111
17	" - RAMP "M"	112
18	" - RAMP "N" & "P"	113
19	TYPICAL ROADWAY CROSS SECTIONS	114
20	PAVING, CURBING AND SURFACING DETAILS	115
21	SURFACE & SUBSURFACE PLAN - STA. 82+25 TO 84+85	116
22	" " " " - STA. 84+85 TO 90+45	117
23	" " " " - STA. 90+45 TO 95+85	118
24	" " " " - STA. 95+85 TO 101+35 SB	119
25	" " " " - STA. 101+35 SB TO 106+75 SB	120
26	" " " " - STA. 106+75 SB TO 112+15 SB	121
27	" " " " - STA. 112+15 SB TO 117+65 SB	122
28	" " " " - STA. 117+65 SB TO 123+60	123
29	" " " " - STA. 123+60 TO 127+71	124
30, 31	DETAILS OF DRAINAGE STRUCTURES	125
32	CONDUCTOR SYSTEM FOR DRAINAGE OF ELEVATED EXPRESSWAY	126
33	EXCAVATION PAYMENT LINES	127
34, 35, 36	ALTERATIONS TO EXISTING BRUCKNER BOULEVARD BRIDGE OVER THE N. Y., N. H. & H. RAILROAD	128
37	BRYANT AVENUE FOOTBRIDGE - GENERAL PLAN & ELEVATION	129
38	" " " " - SUPERSTRUCTURE	130
39	" " " " - SUBSTRUCTURE	131, 132
40, 41	" " " " - MISCELLANEOUS DETAILS	133
42	" " " " - MISCELLANEOUS DETAILS	134
43	SUBSTRUCTURE	135
44	ARCHITECTURAL DETAILS	136
45	PIER ELEVATIONS - PIERS 3-3 THRU 3-10	137
46	" " " " - PIERS 3-11 THRU 3-14	138
47	" " " " - PIERS 3-15 THRU 3-23	139
48	" " " " - PIERS 3-24 THRU 3-26	140
49	" " " " - PIERS 3-27 & 3-28	141
50	" " " " - PIERS 3-29 THRU 3-33	142
51	" " " " - PIERS 3-34 THRU 3-36	143
52	" " " " - PIERS 3-37 THRU 3-39	144
53	" " " " - PIERS 3-40 THRU 3-44	145
54, 55	TABLES OF PAD DATA	146
56	PILE PLANS & DETAILS	147
57, 58	PILE PLANS	148
59, 60	PIER FOOTING REINFORCEMENT DETAILS	149
61	PIER REINFORCEMENT DETAILS - PIERS 3-3 THRU 3-10, 3-25 & 3-26	150
62	" " " " - PIER 3-11	151
63	" " " " - PIER 3-12	152
64	" " " " - PIER 3-13	153
65	" " " " - PIER 3-14	154
66	" " " " - PIERS 3-15, 3-16 & 3-17	155
67	" " " " - PIERS 3-18 THRU 3-23	156
68	" " " " - PIER 3-24	157
69	" " " " - PIERS 3-27, 3-28 SB & 3-29 SB	158
70	" " " " - PIERS 3-28 NB & 3-29 NB	159
71	" " " " - PIERS 3-30 SB THRU 3-37 SB	160
72	" " " " - PIERS 3-30 NB THRU 3-36 NB	161
73	" " " " - PIERS 3-30 N THRU 3-35 N	162
74	" " " " - PIER 3-37 NB	163
75	" " " " - PIER 3-38	164
76	" " " " - PIER 3-39	165
77	" " " " - PIER 3-40	166
78	" " " " - PIER 3-41	167
79	" " " " - PIERS 3-45 SB & NB THRU 3-56 SB & NB, 3-18M THRU 3-27M AND 3-18P THRU 3-34P	168
80	ABUTMENT DETAILS - RAMP M	169
81	" " " " - RAMP N	170
82	" " " " - RAMP P	171
83	" " " " - SB & NB ROADWAYS	172
84	SUPERSTRUCTURE STEELWORK	173
85	KEY FRAMING PLAN	174
86	FRAMING PLANS - UNITS 3-1 TO 3-3	175
87	" " " " - UNITS 3-4 TO 3-6	176
88	" " " " - UNITS 3-7, 3-8(M) AND 3-9 (M)	177, 178
89	" " " " - UNITS 3-10 A & B TO 3-12	179, 180
90	" " " " - UNITS 3-13 (M) TO 3-21 (P)	181
91	" " " " - UNITS 3-22 TO 3-25 (N)	182, 183, 184
92	" " " " - UNITS 3-27 (P) TO 3-37	185
93	" " " " - UNITS 3-38 TO 3-43	186 to 194
94	" " " " - UNITS 3-44 TO 3-49	195
	" " " " - UNITS 3-50 TO 3-52	196
	" " " " - UNITS 3-53 TO 3-55	197
	" " " " - UNITS 3-56 TO 3-58	198
	" " " " - UNITS 3-59 TO 3-61	199
	" " " " - UNITS 3-62 TO 3-64	200 to 244
	" " " " - UNITS 3-65 TO 3-67	245

95	STRINGER SPLICES
96	EXPANSION SHOES
97	FIXED SHOES
98	BOX GIRDER SHOES
99, 100, 101	SUPERSTRUCTURE CROSS SECTIONS
102	EXPANSION JOINT DETAILS - TOOTHED JOINTS
103	" " " " - CLOSED & SLIDING JOINTS
104	SHEAR STUDS AND COVER PLATE WELDING
105	DRAINAGE INLET & TROUGH DETAILS
106	DRAINAGE DETAILS
107	ELEVATION & DETAILS - STEEL BENTS B3-1 & B3-2
108	DETAILS - STEEL BENTS B3-1 & B3-2 & BEAM TYPE MALL BARRIER
109	ELEVATION - BOX GIRDER G3-3
110	DETAILS - BOX GIRDER G3-3
111	ELEVATION - BOX GIRDER G3-4
112	DETAILS - BOX GIRDER G3-4
113	ELEVATION - BOX GIRDER G3-5
114	DETAILS - BOX GIRDER G3-5
115	ELEVATION - BOX GIRDER G3-6
116	DETAILS - BOX GIRDER G3-6 & G3-9
117	PLAN & ELEVATION - BOX GIRDER G3-7
118	DETAILS - BOX GIRDER G3-7
119	ELEVATION - BOX GIRDER G3-8
120	DETAILS - BOX GIRDER G3-8
121	ELEVATION - BOX GIRDER G3-9 & G3-10
122	DETAILS - BOX GIRDER G3-9
123	ELEVATION - BOX GIRDER G3-10
124	DETAILS - BOX GIRDER G3-10
125	ELEVATION - BOX GIRDER G3-25
126	DETAILS - BOX GIRDER G3-25
127	ELEVATION - BOX GIRDER G3-42 and G3-43
128	DETAILS - BOX GIRDER G3-42
129	DETAILS - BOX GIRDER G3-42 TO G3-44
130	DETAILS - COLUMNS C3-42 E & W, C3-43E & W, C3-44 E & W
131, 132	HANDRAIL AND PARAPET DETAILS
133	CAMBER TABLES
134	CONCRETE DECK
135	DECK REINFORCEMENT - UNITS 3-1, 3-10A & 3-10B
136	" " " " - UNITS 3-2, 3-4 & 3-14
137	" " " " - UNIT 3-3
138	" " " " - UNIT 3-5
139	" " " " - UNIT 3-6
140	" " " " - UNIT 3-7
141	" " " " - UNITS 3-8 (M), 3-9 (M) & 3-11 (M)
142	" " " " - UNIT 3-12
143	" " " " - UNITS 3-13 (M), 3-15 (M) & 3-16
144	" " " " - UNITS 3-18, 3-19 (P), 3-20 & 3-21 (P)
145	" " " " - UNITS 3-22 & 3-25 (P)
146	" " " " - UNITS 3-23 (N), 3-26 (N) & 3-29 (N)
147	" " " " - UNITS 3-24 A, B & C, & 3-52
148	" " " " - UNITS 3-27 (P), 3-28, 3-30 & 3-31
149	" " " " - UNITS 3-32 THRU 3-37
150	" " " " - UNITS 3-38 & 3-39
151	" " " " - UNITS 3-40 & 3-41
152	" " " " - UNITS 3-42 & 3-43
153	" " " " - UNITS 3-44 THRU 3-45
154	" " " " - UNITS 3-49, 3-50 & 3-51
155	DECK REINFORCEMENT DETAILS
156	MEDIAN, PARAPET & DECK REINFORCEMENT DETAILS
157	MISCELLANEOUS DECK DETAILS & PARAPET JUNCTIONS
158	RETAINING WALLS
159	W1 & SECTIONS 7, 8 & 9-W2
160	SECTIONS 10 THRU 19-W2
161	W3 & SECTIONS 20 THRU 23-W2
162	W4 & W5
163	W6 & W7
164	W8 & NEW CELLAR WALL AT HUNTS POINT AVENUE
165	W9 SECTIONS 1 THRU 7
166	W10
167	W11
168	W12
169	W13
170	STEM & FOOTING REINFORCEMENT PATTERNS - WALLS W4 THRU W8
171	REINFORCEMENT DETAILS - WALLS W6, W7 & W8
172	REINFORCEMENT PATTERNS - STEM & FOOTING - WALLS W1, W2, W9, W10 & W13
173	FOOTINGS W11 & W12
174	REINFORCEMENT DETAILS - SECTION 5-WALL W1 & SECTION 8-WALL W2
175	" " " " - SECTIONS 4, 5, 7 & 11 - WALL W10
176	" " " " - WALL W9, SECTIONS 1 & 6 - WALL W1
177, 178	" " " " - SECTION 7 - WALL W2, SECTION 1 - WALL W10
179, 180	" " " " - WALL W9 AND WALL W13
181	REINFORCEMENT PATTERNS AND DETAILS - WALLS W11 & W12
182	FILE PLANS
183	WALL DETAILS
184	RAMP M RELEVING SLAB & CURTAIN WALLS
185	ELECTRICAL NOTES & LEGEND
186, 187, 188	ELECTRICAL DETAILS
189	FOOTBRIDGE LIGHTING
190	ELECTRICAL DISTRIBUTION PLAN
191	ILLUMINATED & TEMPORARY BARRICADES, WARNING SIGNS
192	MAINTENANCE OF TRAFFIC - GENERAL PLAN
193	" " " " - VICINITY OF LONGFELLOW AVENUE
194	TEMPORARY SIGN SUPPORTS
195	BAR REINFORCEMENT BENDING DIAGRAMS
196	BAR LISTS
197	ALTERATIONS TO N. Y., N. H. & H. R. CO. FACILITIES
198	DRAWING NOS. BE 20-1 THRU BE
199	SCHEMATIC DRAWING

THE FOLLOWING NEW YORK CITY STANDARD DRAWINGS APPLICABLE TO THE WORK UNDER THIS CONTRACT ARE AVAILABLE TO THE CONTRACTOR AT THE DISTRICT NO. 10 OFFICE OF THE NEW YORK STATE DEPARTMENT OF PUBLIC WORKS AT BABYLON, L. I., N. Y. :-

DRAWING NO.	DESCRIPTION
10221-Z	DEPT. OF WATER SUPPLY, GAS & ELECTRICITY
10222 thru 10224-Z, 10224A-Z	CAST IRON PIPE SIZES & STANDARD HUB & SPIGOT BEAD
10225-Z THRU 10228-Z	CAST IRON REDUCERS
10229-Z	CAST IRON BENDS (1 1/2", 2 1/2", 4", 6", 9")
10230-Z	CAST IRON OFFSETS
10231-Z	CAST IRON 3-WAYS (4" to 20")
10232-Z	CAST IRON 4-WAYS (4" to 20")
10233-Z	CAST IRON BLOW-OFFS & AIR COCKS
10234-Z	CAST IRON SLEEVES
10235-Z	CAST IRON CAPS
10236-Z	CAST IRON PLUGS, LUGS
10237-Z, 10238-Z	BANDS & RODS FOR C. L. MAINS
10238A-Z	VALVE SKIRT BOX
10240-Z	HYDRANT VALVE BOX, CAST IRON
10241-Z	SPIGOT BEAD FOR CUT PIPE
10242-Z	HYDRANT EXTENSION PIECES
11214-Z	FOUNDATIONS FOR VALVE BOXES
11576-Z	HYDRANT BANDS
18077-Z	CAST IRON LINE VALVE CONNECTION
D-10339-Z	HYDRANT DRAIN BASE
22809-Z	CLEARANCES AROUND HYDRANTS
23976-Z	CAST IRON DOUBLE HUB
24270-Z	TYPICAL CONSTRUCTION FOR SUPPORTING C. L. WATER MAINS
24926-Y	CAST IRON SCREW PLUGS
25418-Z	QUANTITY OF LEAD & YARN FOR VARIOUS SIZES OF C. L. PIPE JOINTS.
27934-Z	HYDRANT FENDER ISLAND
29945-Z	STANDARD METHODS FOR HYDRANT DRAINAGE
31050-Z	RODDING SPECIAL CASTINGS
35672-Z	FIELD JOINTS FOR STEEL WATER MAINS
35510-Z	IDENTIFICATION PLATE DETAILS
D-2851	METHOD OF MOUNTING FUSE CUT-OUT IN SHAFT OF LAMPPOST
D-3764	SIDEWALK TYPE CONCRETE BOX
E-3177	TYPICAL FOUNDATION FOR TYPE 8 & 12 LAMPPOSTS
E-3788	SHEET METAL PYLON
F-3390	DAVIT TYPE ALUMINUM LAMPPOST
G-3769	DETAILS OF TERMINAL BLOCK (3 RELAY)
H-2555	MISCELLANEOUS LIGHTING DETAILS
H-1009	BARRICADE & SIGN LIGHTING
H-3140	DETAILS OF TERMINAL BLOCK (6 RELAY)
H-3435	FIRE ALARM LUMINAIRE & BRACKET
H-3860	LAMPPOST
H-3880	FABRICATED ALUMINUM TRANSFORMER BASE
J-3739	ALUMINUM DOOR FOR FABRICATED TRANSFORMER BASE
J-3748	FIRE ALARM LUMINAIRE HOOD
J-3857	LUMINAIRE TYPE 3458-2
K-3438-2	
	DEPT. OF TRAFFIC
LG 56 S & LB-III	TRAFFIC SIGNAL FOUNDATIONS
	POLICE DEPT. - COMMUNICATIONS DIVISION
	STANDARD DRAWING NOS. 1 & 2
	FIRE DEPT. - COMMUNICATIONS DIVISION
	STANDARD DRAWING NOS. 140 & 141
	PRESIDENT OF THE BOROUGH OF THE BRONX
PLAN NO. 11358	MAP ESTABLISHING LINES AND GRADES FOR BRUCKNER EXPRESSWAY, SECTION 2
PLAN NO. 11229	MAP SHOWING THE LAYING-OUT OF SECTION 2 OF THE BRONX RIVER EXPRESSWAY
CONTRACT NO. 7005-1	CONSTRUCTING BRIDGE & APPROACHES CARRYING BRUCKNER BLVD. OVER N. Y., N. H. & H. R. R.
	FOR LIST OF APPLICABLE STANDARD SEWER DRAWINGS, SEE SHEET 30
	TRANSIT AUTHORITY
FILE NO. 2101A	ROUTE NOS. 19 & 22 - SECTION NO. 1A - STRUCTURAL PLANS OF PUBLIC SERVICE COMMISSION
FILE NO. E-7	ROUTE NOS. 19 & 22 - SECTIONS 1A & STRUCTURAL PLANS OF PUBLIC SERVICE COMMISSION
DRAWING NO. 5-917	ROUTE NOS. 19 & 22 SECTIONS 1 & 1A - STRUCTURAL PLANS OF BOARD OF TRANSPORTATION
FILE NO. 2101	
DWG. NO. 301, 304	
	DEPARTMENT OF PARKS
DRAWING NO. TY 1A / 145	STANDARD DRAWINGS - TYPICAL DETAILS FOR CHAIN LINK FENCING
SHEETS 1, 10A & 53	
	BOARD OF EDUCATION
SHEET NO. 1240	BUREAU OF PLANT OPERATION AND MAINTENANCE - STANDARD DETAILS FOR SEDIMENT PITS

BRUCKNER EXPRESSWAY SECTION I			
LIST OF DRAWINGS			
DRAWING NO.	SCALE	DATE	SHEET NO.
		3-31-60	2
HOWARD, NEEDLES, TAMMEN & BERGDORFF CONSULTING ENGINEERS			
NEW YORK KANSAS CITY			

In Charge of R.B.K.
 Made by R.B.K.
 Checked by T.P.S.

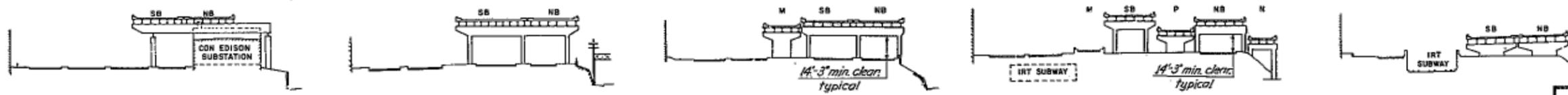
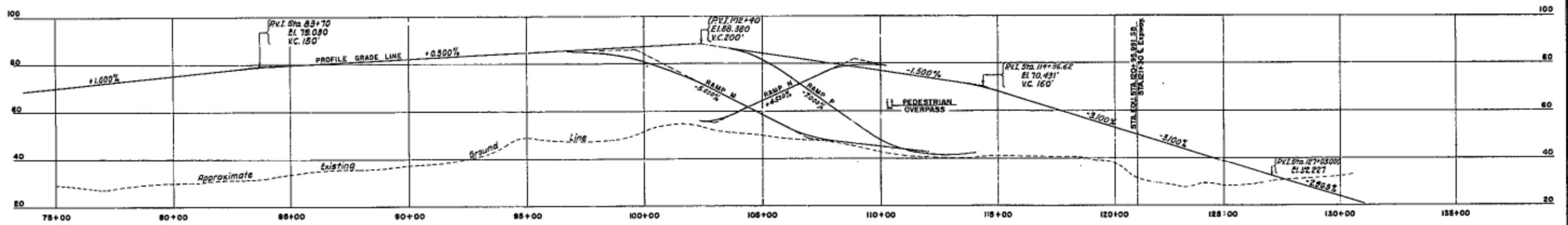
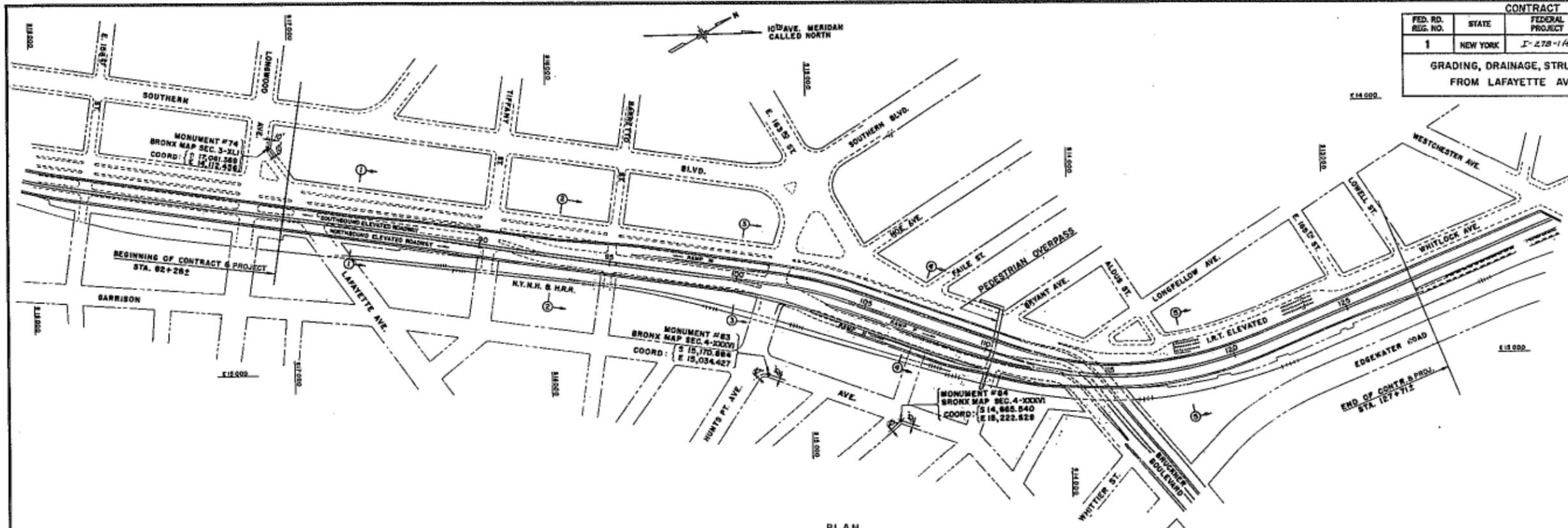


F I B E 6 0 0 0 1

F.I.B.E. 60-1

CONTRACT NO. 3				
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	I-278-1488	3	245

GRADING, DRAINAGE, STRUCTURES AND PAVING
FROM LAFAYETTE AVE. TO LOWELL ST.



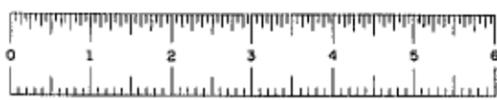
BRUCKNER EXPRESSWAY
SECTION I

PLAN OF CONTRACT

DRAWING NO.	SCALE	DATE	SHEET NO.
	As Noted	3-31-60	3

HOWARD, NEEDLER, TAMMICH & BERENSON
CONSULTING ENGINEERS
NEW YORK KANSAS CITY

In Charge of R.B.K.
Made by A.F.S. & K.P.M.
Traced by T.J.O.
Checked by G.F.S.



F I B E 6 0 0 0 1

F.I.B.E. 60-1

CONTRACT NO. 3					
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	[278-168]		5	245
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.					

TABLE OF EXCAVATION & EMBANKMENT				
LOCATION	FROM STA. TO STA. (Approx.)	UNCLASS. EXCAV. ITEM 2S	TRENCH, CULVERT & BRIDGE EXCAVATION ITEM 5S	EMBANKMENT
		C.Y.	C.Y.	C.Y.
From Lafayette Ave. to Tiffany St.	82+28 - 90+00	617		166
• Tiffany St. to Barretto St.	90+00 - 95+00	454		1,585
• Barretto St. to Hunts Pt. Ave.	95+00 - 101+00	528		1,691
• Hunts Point Ave. to Bryant Ave.	101+00 - 111+00	3,004		15,826
• Bryant Ave. to Longfellow Ave.	111+00 - 114+00	1,550		654
• Longfellow Ave. to Abut. NB-5B	114+00 - 123+80	238		1,999
• Abut. NB-5B to Sheridan Expwy.	123+80 - 127+71	10		17,490
Demolished Building Sites		450		13,587
Retaining Walls			13,936	
Piers			24,761	
Abutments			1,167	
From Water Quantities			2,629	
• Drainage			10,354	
Detours		82		
Borrow (see Calculation below)		43,698		
Bryant Ave. Footbridge			595	
Ramp M Reliev. Slab & Curt. Walls		312	266	
Railroad Work			75	
TOTALS		50,943	53,783	52,998

TABLE OF DRAINAGE QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
2EF-B	Selected Fill	C.Y.	2,505
55	Trench, Culvert and Bridge Excavation	"	10,354
C10	Porous Concrete Pipe Underdrain, 6" Dia.	L.F.	1,070
14 C	Reinforced Concrete Culvert Pipe, 12" Dia.	"	1,812
14 D	" " " " 15" "	"	1,602
14 E	" " " " 18" "	"	721
14 F	" " " " 24" "	"	1,028
14 G	" " " " 30" "	"	128
15-2	Portland Cement, Type 2	Bb/s.	1,002
15-N	Natural " " N	"	167
22	Class 3 Concrete	C.Y.	317
28RR	Bar Reinforcement for Structures	Lbs.	8,143
30S	Miscellaneous Metals	"	87,864
83X	Temporary Sheet Piling	S.F.	90,078
102S	Catch Basins, Manholes & Drop Inlets	C.Y.	522
103S	Adjusting Catch Basins, Manholes & Drop Inlets	Ea.	23
103X	Changing Elevations, Catch Basins, Manholes & Drop Inlets	"	5
119A	Bank Gravel Fill	C.Y.	254
250	Sediment Trap and Appurtenances	L.S.	—
400	Furnish & Install Wrought Iron Pipe & Fittings, 8" Dia.	L.F.	10

Calculation for Borrow Quantity:

Embankment = 52,998 C.Y.
 Suitable excavation available for embankment = 9,300 C.Y.
 Volume of Borrow = 43,698 C.Y.

TABLE OF LENGTHS		
FROM STA. TO STA.	L. F.	REMARKS
82+28 - 92+76	1,048	Grading, Drainage, Elevated Expwy, Paving, Lighting & Misc. Work
92+76 - 123+80	3,070	Grading, Drainage, Elevated Expwy, Walls, Paving, Lighting & Misc. Work
123+80 - 127+71	391	Grading, Drainage, Walls, Paving, Lighting & Miscellaneous Work
TOTAL LENGTH OF CONTRACT		4,509 = 0.854 Miles, Bronx County

TABLE OF CHAIN LINK FENCING					
LOCATION	6' HIGH FENCE ITEM 106 AB	12' HIGH FENCE ITEM 223 A	SINGLE GATE ITEM 226	DOUBLE GATE ITEM 228	DOUBLE GATE ITEM 224
	L.F.	L.F.	Ea.	Ea.	Ea.
Lafayette Ave. to Tiffany St. & Wall W-3	395			1	
Tiffany St. to Barretto St. & Wall W-1	392			1	
Barretto St. to Hunts Point Ave. & Wall W-2	496				
Abut. Ramp N to Faile St. & Wall W-9	645		1		
Mall between 5B East Rdy. & Ramp M	840				
Mall between NB Rdy. & Ramp P or M	730		1		
RR R.O.W. to Subway Portal	558			1	
Along Whitlock Ave.	37		1		
• RR R.O.W.	140				
Wall W10	245				
Wall W13	225				
Bryant Ave. Footbridge		150			1
West Mall Hunts Pt. Ave. to Faile St.	345				
TOTALS		5,048	150	3	3

BRUCKNER EXPRESSWAY
SECTION I

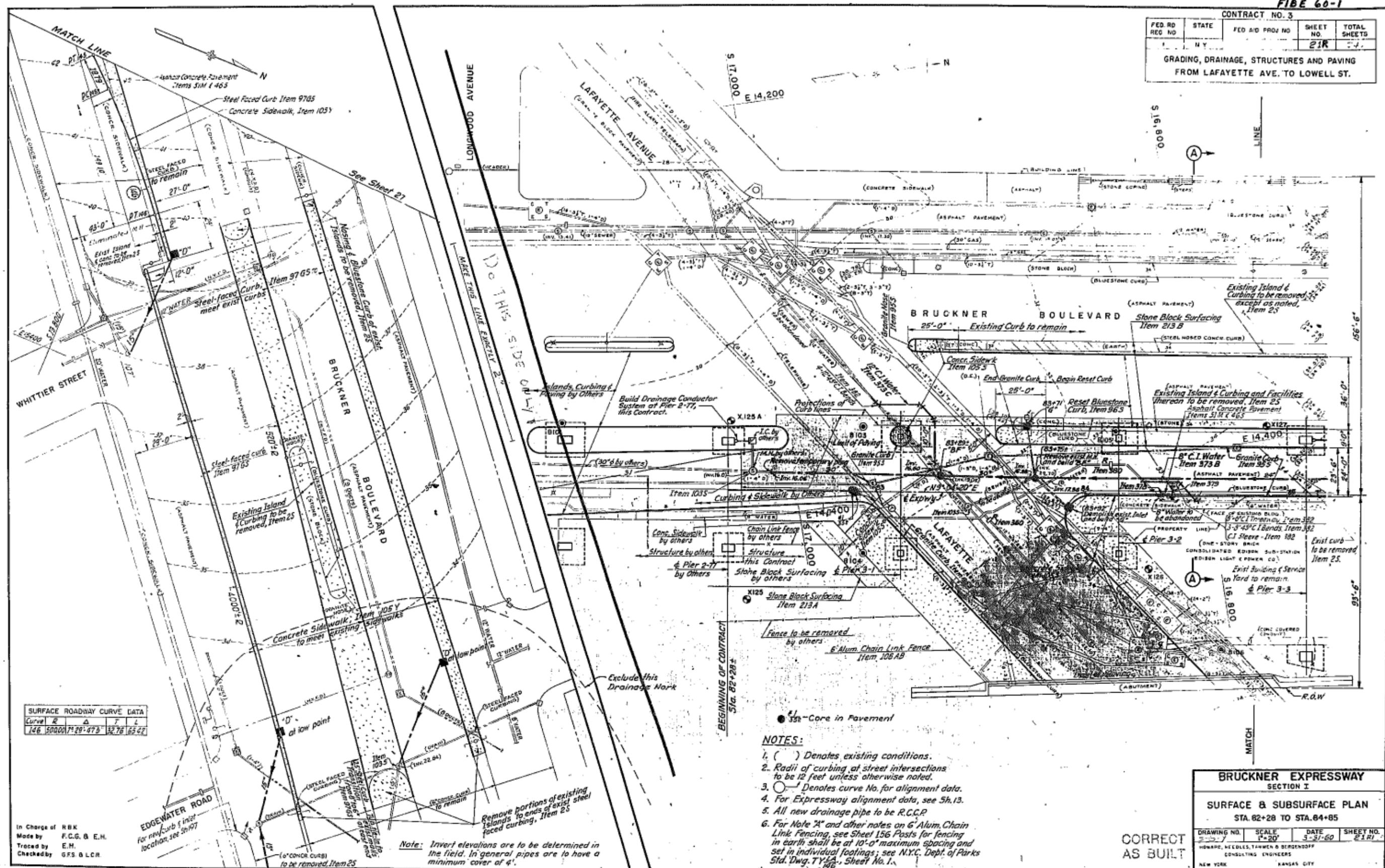
TABLES OF
ROADWAY QUANTITIES

DRAWING NO. 3-6-4A	SCALE 3/8" = 1'	DATE 3-3-60	SHEET NO. 5
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HOWARD, NEEDLES, TAMMEN & BERENSON
CONSULTING ENGINEERS
NEW YORK MANHATTAN CITY

In Charge of R.B.K.
 Made by E.H.
 Traced by
 Checked by H.H.

CONTRACT NO. 3				
FED. RD. REG. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		21R	21
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.				



SURFACE ROADWAY CURVE DATA				
Curve	R	Δ	T	L
146	50000'	29° 47' 3"	32.76	65.47

In Charge of RBK
 Made by F.C.G. & E.H.
 Traced by E.H.
 Checked by G.F.S. & L.C.R.

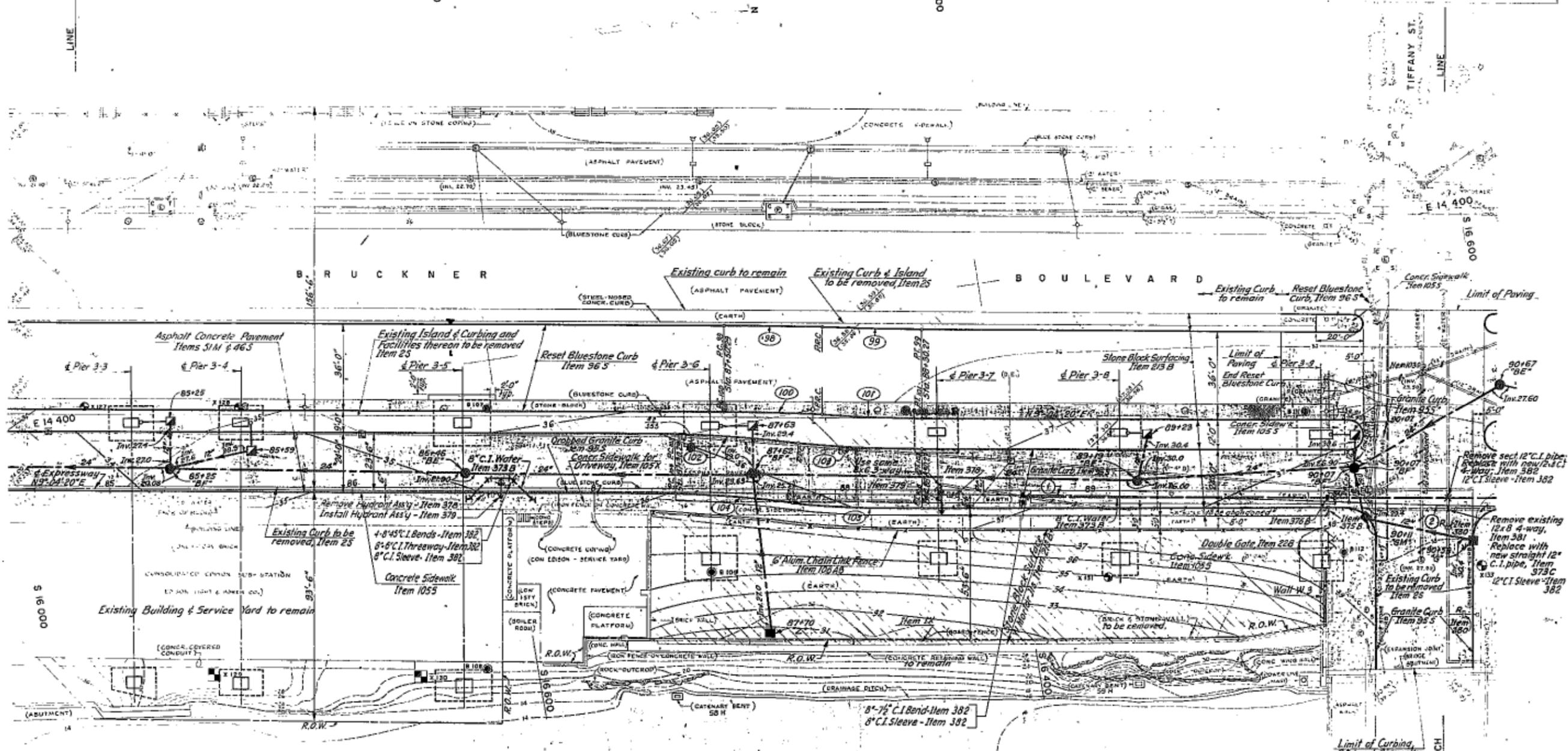
- NOTES:**
- () Denotes existing conditions.
 - Radii of curbing at street intersections to be 12 feet unless otherwise noted.
 - Denotes curve No. for alignment data.
 - For Expressway alignment data, see 5h.13.
 - All new drainage pipe to be R.C.C.P.
 - For Note 'X' and other notes on 6' Alum. Chain Link Fencing, see Sheet 156 Posts for fencing in earth shall be at 10'-0" maximum spacing and set in individual footings; see N.Y.C. Dept. of Parks Std. Dwg. T.Y.L.A. Sheet No. 1.

CORRECT AS BUILT

BRUCKNER EXPRESSWAY SECTION I			
SURFACE & SUBSURFACE PLAN			
STA. 82+28 TO STA. 84+85			
DRAWING NO.	SCALE	DATE	SHEET NO.
21R-1	1" = 20'	3-31-60	21R
HOWARD, NEEDLES, TAMMEN & BERGENOFF CONSULTING ENGINEERS			
NEW YORK		KANSAS CITY	

CONTRACT NO. 3		SHEET NO. 22R		TOTAL SHEETS	
FED. NO. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR		
	N.Y.				

GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.



SURFACE ROADWAY CURVE DATA

Curve	R	Δ	T	L
98	886'	2°-51'-54.30"	20.91'	41.80'
99	764'	2°-51'-54.30"	19.11'	38.20'
100	800'	2°-51'-54.30"	20.01'	40.00'
101	800'	2°-51'-54.30"	20.01'	40.00'
102	900'	5°-43'-55.10"	25.09'	50.02'
103	500'	5°-43'-55.10"	25.09'	50.02'
104	476'	5°-43'-55.10"	23.83'	47.62'
105	524'	5°-43'-55.10"	26.23'	52.42'

NOTES: See Sheets 21 & 30

In Charge of R.B.K.
 Made by D.G. & E.H.
 Traced by E.H.
 Checked by G.F.S. & L.C.R.

CORRECT AS BUILT

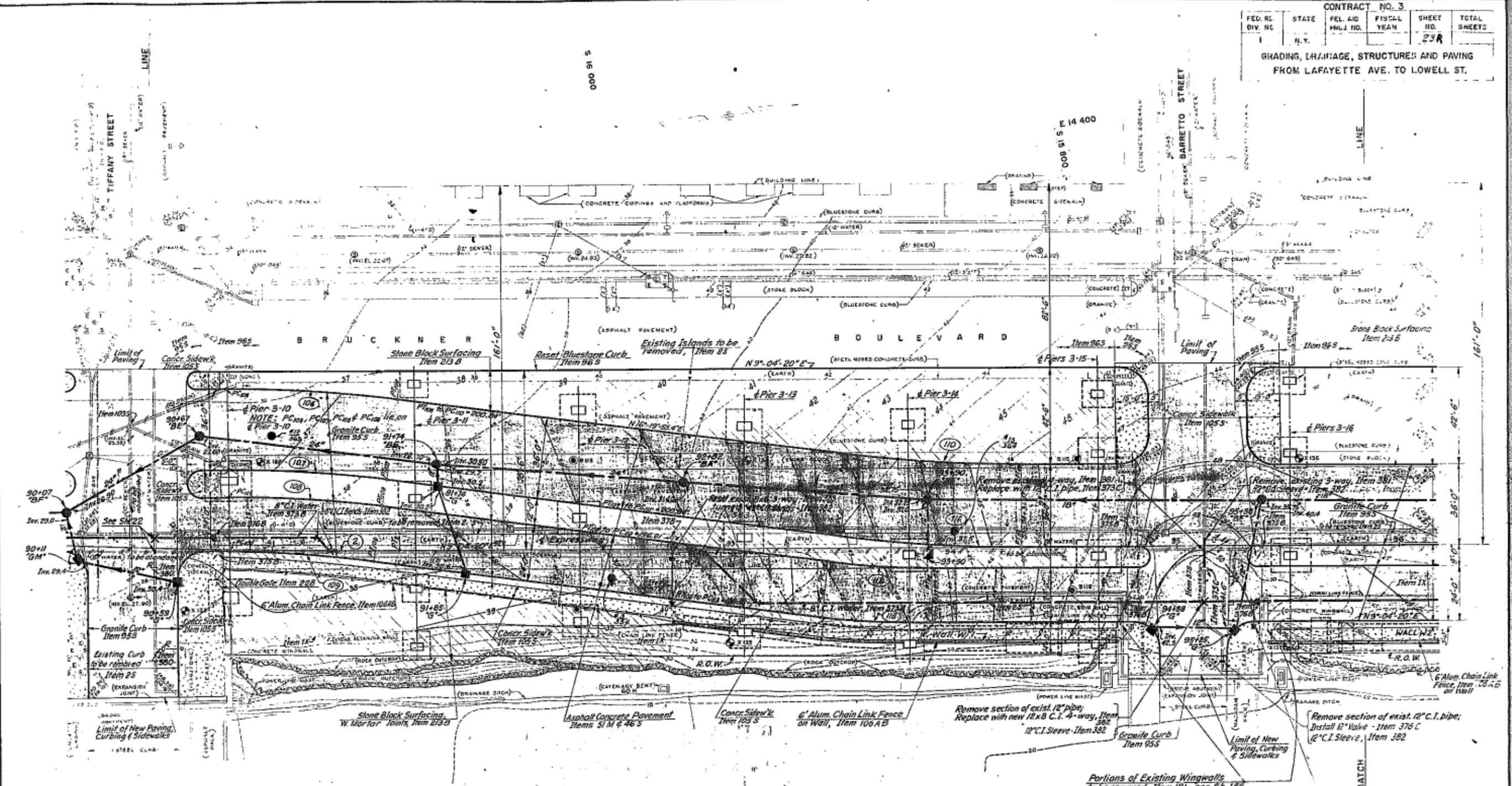
BRUCKNER EXPRESSWAY SECTION I

SURFACE & SUBSURFACE PLAN
 STA. 84+85 TO STA. 90+45

DRAWING NO.	SCALE	DATE	SHEET NO.
	1"=20'	3-31-50	22R

HEWITT, HEDDES, FARMER & BEND, L.L.C.
 CIVIL ENGINEERS
 NEW YORK MANHATTAN CITY

FED. RD. DIV. NO.		STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1		N.Y.			23R	
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.						



SURFACE ROADWAY CURVE DATA

Curve	R	Δ	T	L
106	600'	7°-15'-35.40"	38.06'	76.02'
107	364'	do.	35.78'	71.46'
108	552'	do.	35.02'	69.94'
109	528'	do.	33.50'	66.90'
110	600'	do.	38.06'	76.02'
111	636'	do.	40.35'	80.59'
112	350'	do.	22.20'	44.35'
113	374'	do.	23.73'	47.39'

NOTES:
 See note sheet 10 regarding Bent 60H.
 Additional notes on sheets 21 & 30

BRUCKNER EXPRESSWAY SECTION I

SURFACE & SUBSURFACE PLAN
 STA. 90+45 TO STA. 95+65

DRAWING NO.	SCALE	DATE	SHEET NO.
	1" = 20'	5-31-50	23R

HORNBY, WELLES TARRANT & BERGENDOFF
 CONSULTING ENGINEERS
 NEW YORK KANSAS CITY

In Charge of R.B.
 Made by L.H.B.E.H.
 Traced by F.H.
 Checked by H.S.B.L.R.

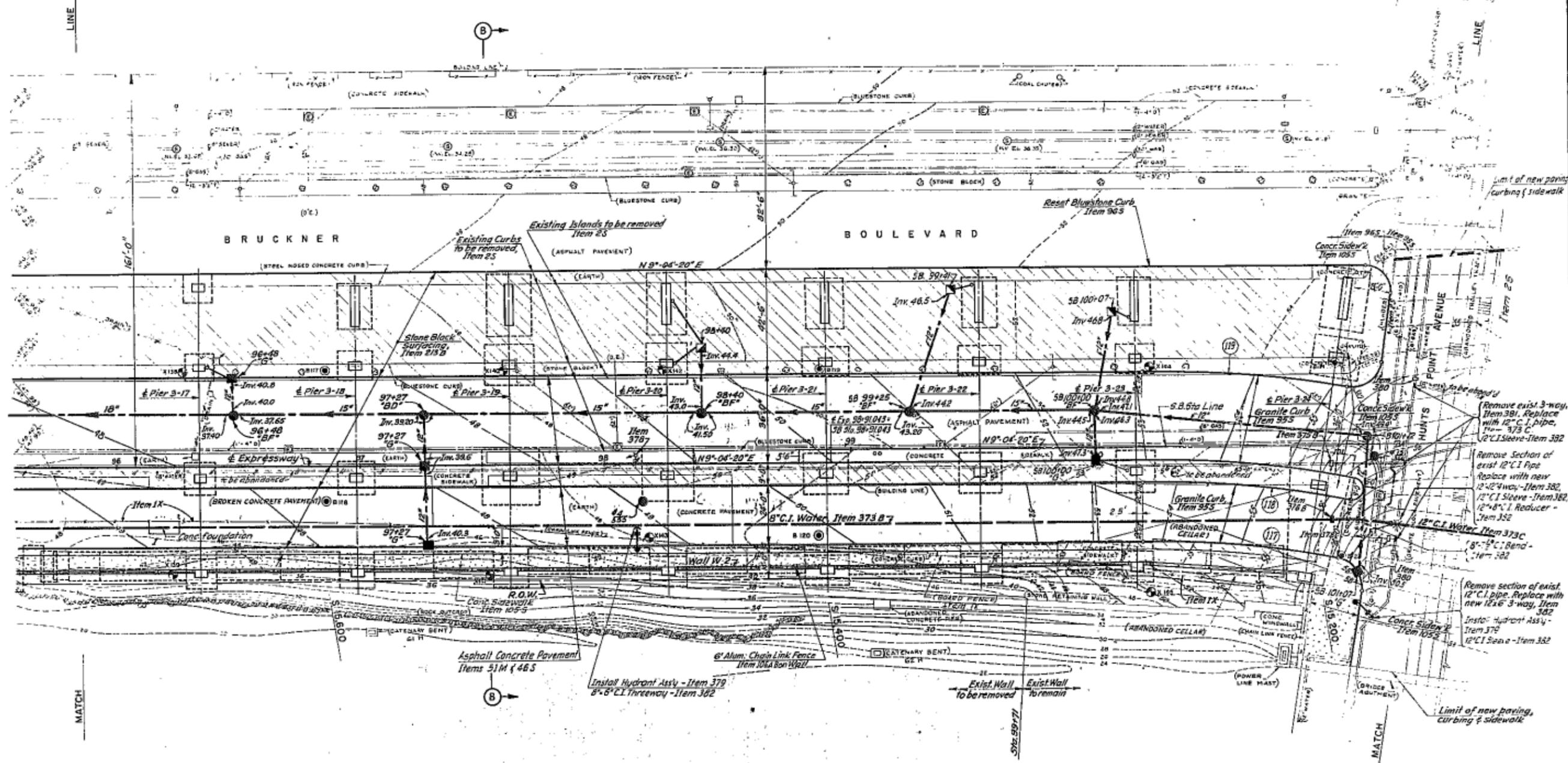
CORRECT
 AS BUILT

FED. RD. REG. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
117	N.Y.		24R	

GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.

SURFACE ROADWAY CURVE DATA

Curve	R	Δ	T	L
117	400.00	11°29'50"	40.27	80.27
118	424.00	11°35'27"	43.04	85.78
119	489.00	10°24'31"	42.72	85.20



NOTES:
 See sheet 10 regarding Bent 61H.
 Additional notes on sheets 21 & 30

BRUCKNER EXPRESSWAY SECTION I

SURFACE & SUBSURFACE PLAN
 STA. 95+85 TO STA. 101+35.5B

DRAWING NO.	SCALE	DATE	SHEET NO.
	1"=20'	3-21-50	24R

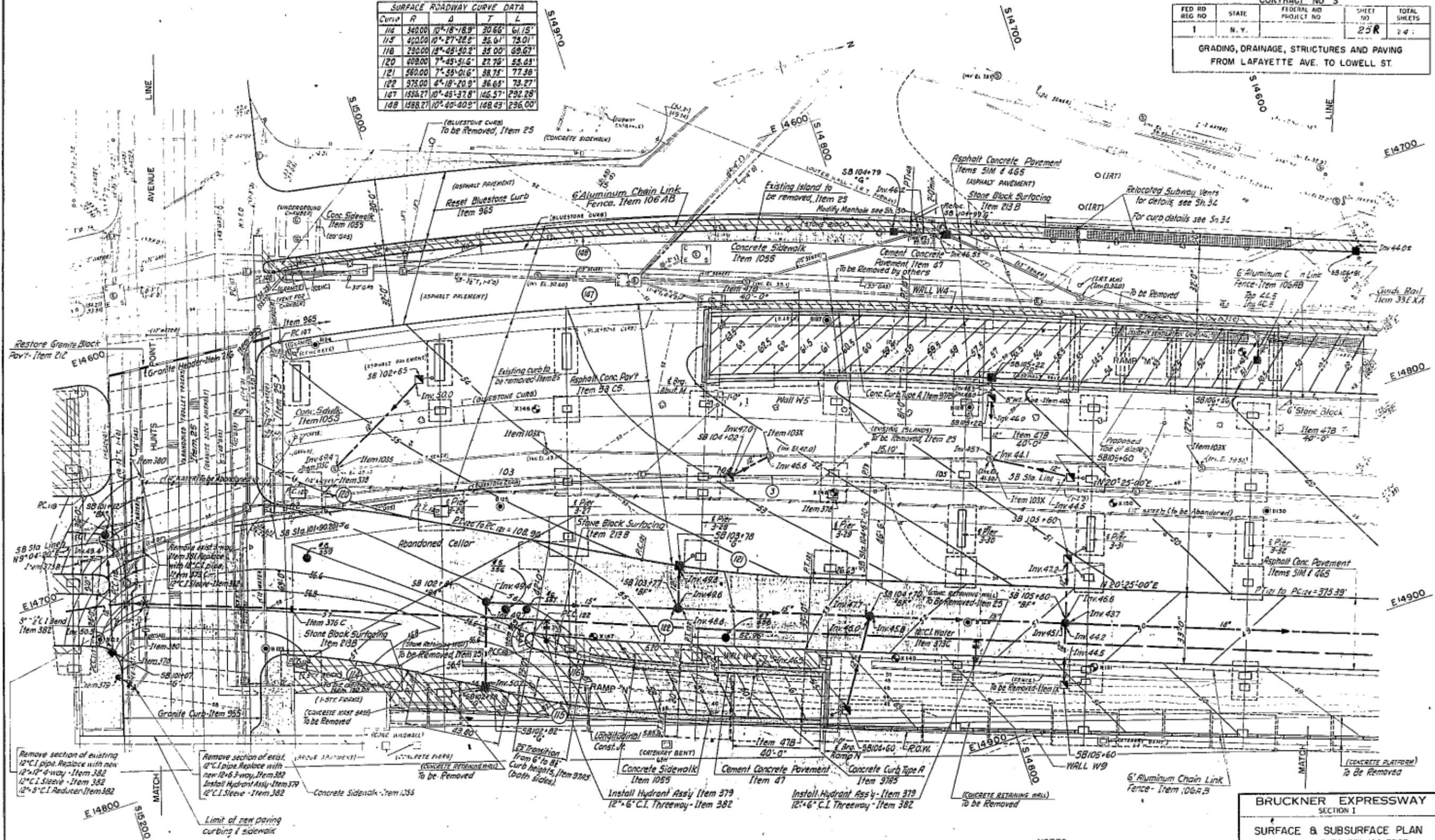
NEW YORK CONSULTING ENGINEERS
 NEW YORK KANSAS CITY

CORRECT AS BUILT

In Charge of R.B.K.
 Made by D.G. & E.H.
 Traced by E.H.
 Checked by G.S. HLEN

CONTRACT NO 3		SHEET		TOTAL SHEETS	
FED RD REG NO	STATE	FEDERAL AID PROJECT NO	25R	24	24
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.					

Curve	R	Δ	T	L
114	340.00	10°-18'-18.9"	30.66'	61.15'
115	400.00	10°-27'-22.5"	35.61'	73.01'
116	290.00	18°-45'-50.2"	35.00'	69.67'
120	400.00	7°-45'-51.6"	27.75'	55.61'
121	560.00	7°-55'-01.6"	38.75'	77.38'
122	975.00	6°-18'-20.9"	36.65'	73.27'
147	1554.27	10°-45'-37.8"	146.57'	292.28'
148	1588.27	10°-40'-40.9"	148.45'	296.00'



Remove section of existing 12" C.I. pipe. Replace with new 12" x 12" 4-way - Item 382
 12" C.I. Sleeve - Item 382
 12" x 5" C.I. Reducer - Item 382

Remove section of exist. 12" C.I. pipe. Replace with new 12" x 6" 3-way - Item 382
 Install Hydrant Assy - Item 379
 12" C.I. Sleeve - Item 382

Limit of new paving curbing & sidewalk

NOTES:
See Sh. 21 / 30

CORRECT AS BUILT

BRUCKNER EXPRESSWAY
SECTION I

SURFACE & SUBSURFACE PLAN
STA 101+35 SB TO STA 106+75 SB

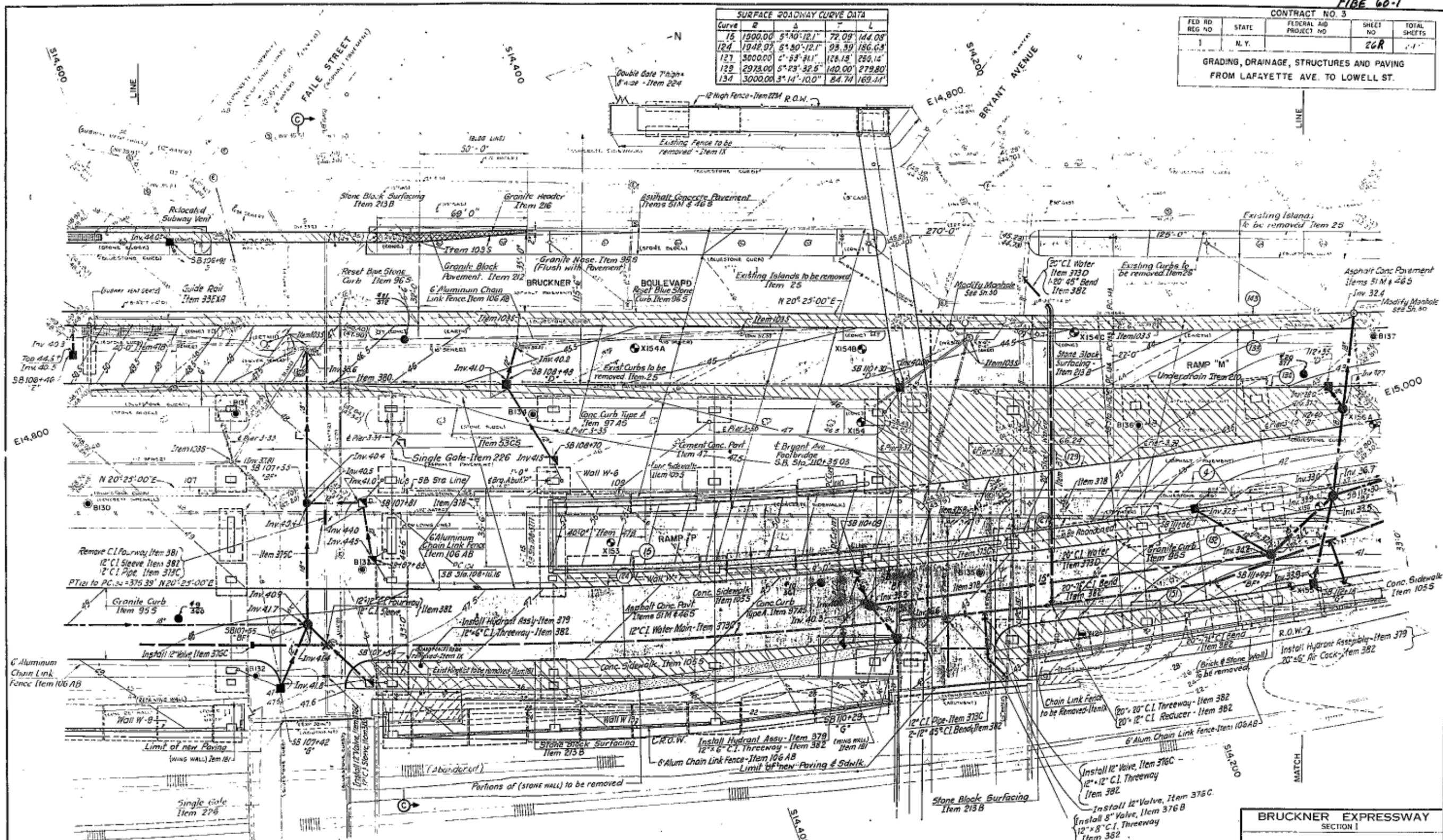
DRAWING NO	SCALE	DATE	SHEET NO
	1"=20'	8-27-50	29A1

HOWARD NEEDLES TAMMIN & BERGENROFF
CONSULTING ENGINEERS

In Charge of R.B.K.
 Made by
 Traced by
 Checked by LCR B PFS

CONTRACT NO. 3				
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N. Y.		26R	117
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.				

SURFACE ROADWAY CURVE DATA				
Curve	R	Δ	T	L
15	1500.00	5°40'12.1"	72.09	144.08
124	1942.97	5°30'12.1"	93.39	186.68
127	3000.00	5°33'31.1"	126.15	252.14
129	2973.00	5°23'32.5"	140.00	279.80
134	3000.00	3°14'10.0"	84.74	169.11



NOTES:
 For alignment and details of the Bryant Ave. footbridge see Sheets 38 to 42
 Additional notes see Sheets 21 & 30
 For additional drainage & Water Main construction, see Sheet No. 38.

CONTRACT
AS BUILT

BRUCKNER EXPRESSWAY SECTION I
SURFACE & SUBSURFACE PLAN
 STA. 106+75.58 TO STA. 112+155.8

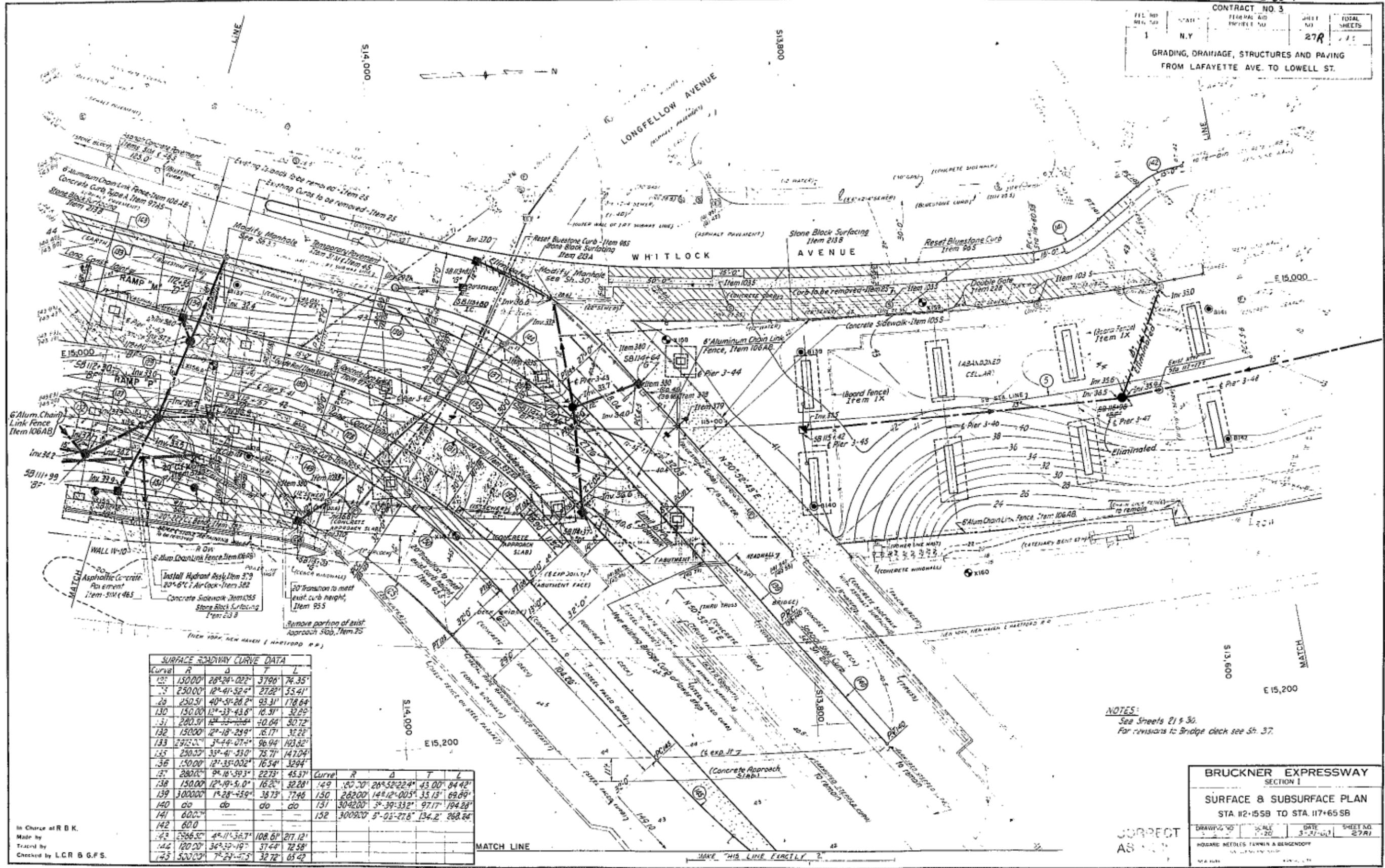
DRAWING NO.	SCALE	DATE	SHEET NO.
3-6-14	1"=20'	3-31-50	26R

HONARD NEIDLES TANNEN & BERGENROFF
 CIVIL ENGINEERS
 NEW YORK PALM BEACH

In Charge of R.B.K.
 Made by
 Traced by
 Checked by L.C.R. & G.F.S.

MATCH

CONTRACT NO. 3		SHEET NO.		TOTAL SHEETS	
1	N.Y.	27R	111		
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.					



SURFACE ROADWAY CURVE DATA

Curve	R	Δ	T	L
127	150.00'	28°24'02"	37.96'	74.35'
128	250.00'	12°41'52"	27.82'	55.41'
129	250.51'	40°54'28"	93.31'	178.64'
130	150.00'	12°33'43.6"	16.31'	32.89'
131	280.31'	12°33'43.6"	40.04'	80.72'
132	150.00'	12°18'29.9"	16.17'	32.22'
133	297.20'	3°44'07.4"	96.94'	193.82'
134	250.51'	33°41'33.0"	75.71'	147.04'
135	150.00'	12°35'00.2"	16.54'	32.94'
136	280.31'	9°16'59.3"	22.73'	45.37'
137	150.00'	12°19'51.0"	16.26'	32.28'
138	3000.00'	1°28'45.9"	38.73'	77.46'
139	do	do	do	do
140	do	do	do	do
141	600.00'	do	do	do
142	60.00'	do	do	do
143	2566.30'	4°11'36.7"	108.69'	217.12'
144	120.00'	34°32'19"	37.44'	72.58'
145	500.00'	7°29'47.5"	32.72'	65.42'

NOTES:
See Sheets 21 & 30.
For revisions to Bridge check see Sh. 37.

BRUCKNER EXPRESSWAY
SECTION 1

SURFACE & SUBSURFACE PLAN
STA 112+55B TO STA 117+65B

DRAWN BY: [Name] SCALE: 1"=20' DATE: 3-27-61 SHEET NO: 27R

CHECKED BY: [Name]

In Charge at R B K.
Made by
Traced by
Checked by LCR B G.F.S.

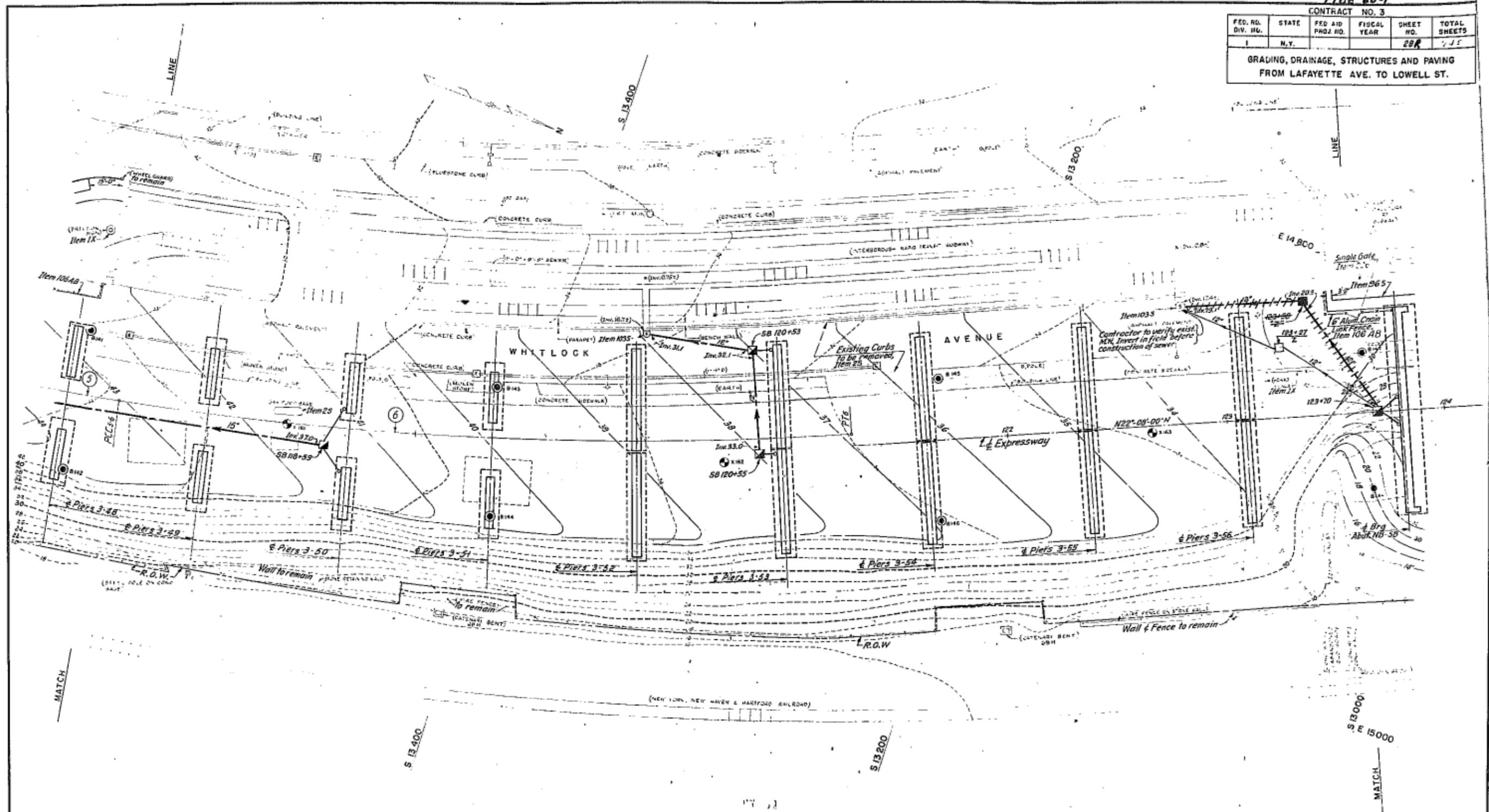
CORRECT AS SHOWN

FIBE 60-1

CONTRACT NO. 3

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.			288	315

GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.



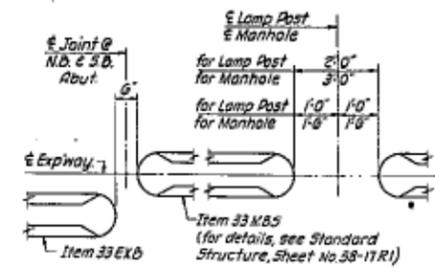
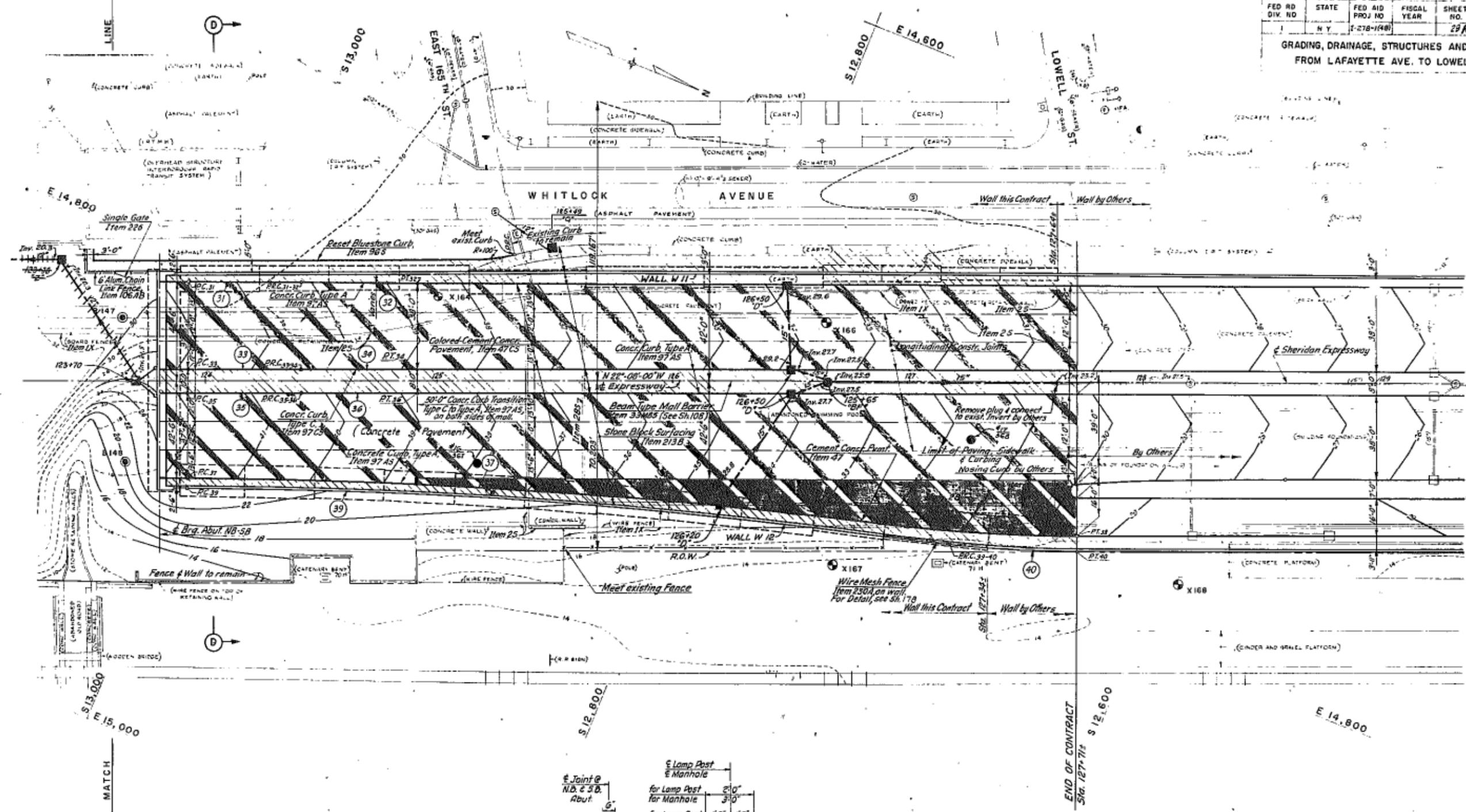
NOTES: See Sheets 21 & 30.

In Charge of R.B.K.
 Made by S.E.M.
 Traced by E.H.
 Checked by H.M.S., S.G.G. & L.H.

CORRECT AS BUILT

BRUCKNER EXPRESSWAY				
SECTION I				
SURFACE & SUBSURFACE PLAN				
STA. 117+60 SB TO STA. 123+60				
DRAWING NO.	SCALE	DATE	SHEET NO.	
	1" = 20'	3-31-60	288/315	
HOWARD, NEEDLES, TAUBER & LEONARDY				
CONSULTING ENGINEERS				
NEW YORK		KANSAS CITY		

CONTRACT NO. 3					
FED RD DIV. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-278-148		29R	245
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.					



NOTES:
See Sheets 21 & 30

In Charge of R B K
Made by W B
Traced by E H
Checked by H M S, S. G. G. B. L. H.

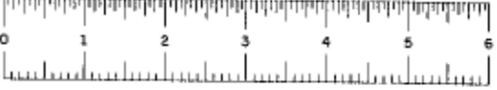
PLAN AT BEAM TYPE MALL BARRIER
1/2" = 1'-0"
(Item 33MB5)

BRUCKNER EXPRESSWAY
SECTION I

SURFACE & SUBSURFACE PLAN
STA. 123+60 TO STA. 127+71

DRAWING NO.	SCALE	DATE	SHEET NO.
29R	1" = 20'	3-3-30	29R

HOWARD, NEEDLES, TAMMEN & BERGENOFF
CONSULTING ENGINEERS
NEW YORK KANSAS CITY

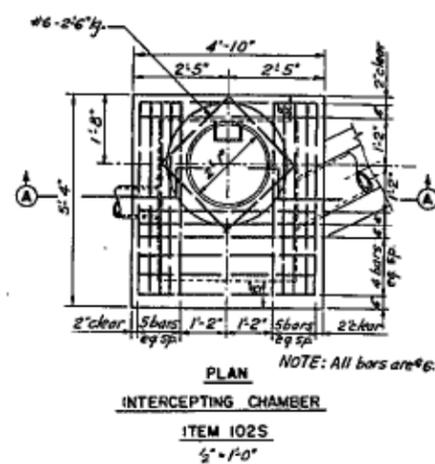


F I B E 6 0 0 0 1

F.I.B.E. 60-1

CONTRACT NO. 3				
FED. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
1	N.Y.	E-278-1449		30
				TOTAL SHEETS
				245

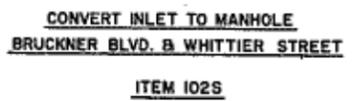
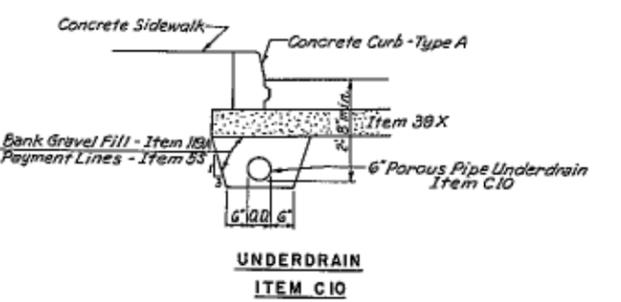
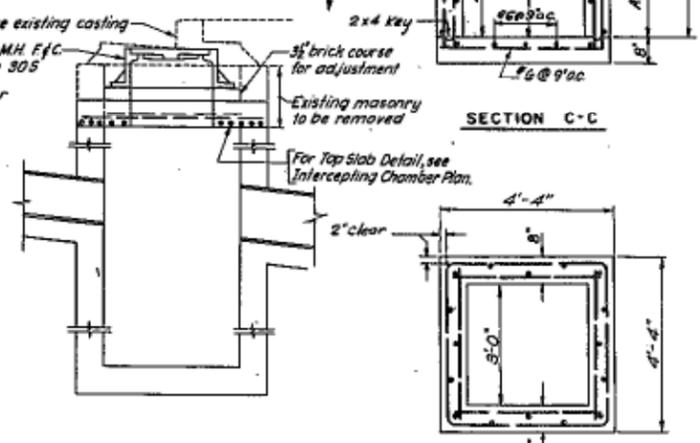
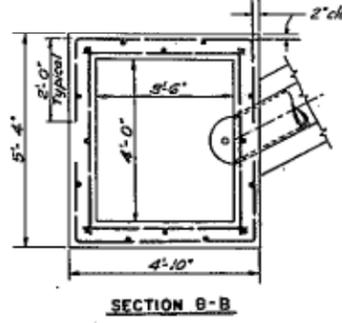
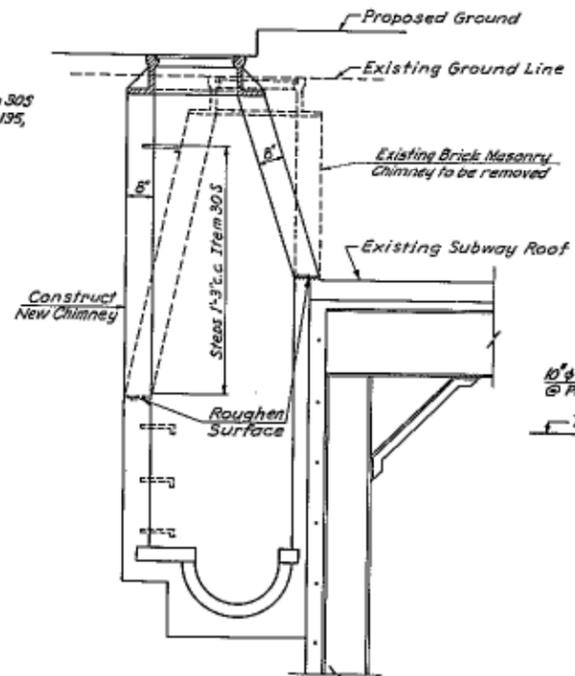
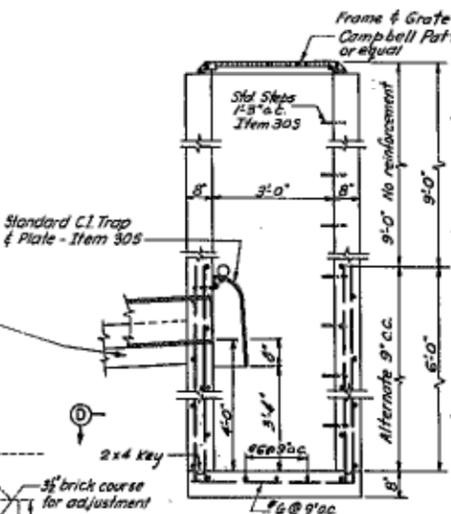
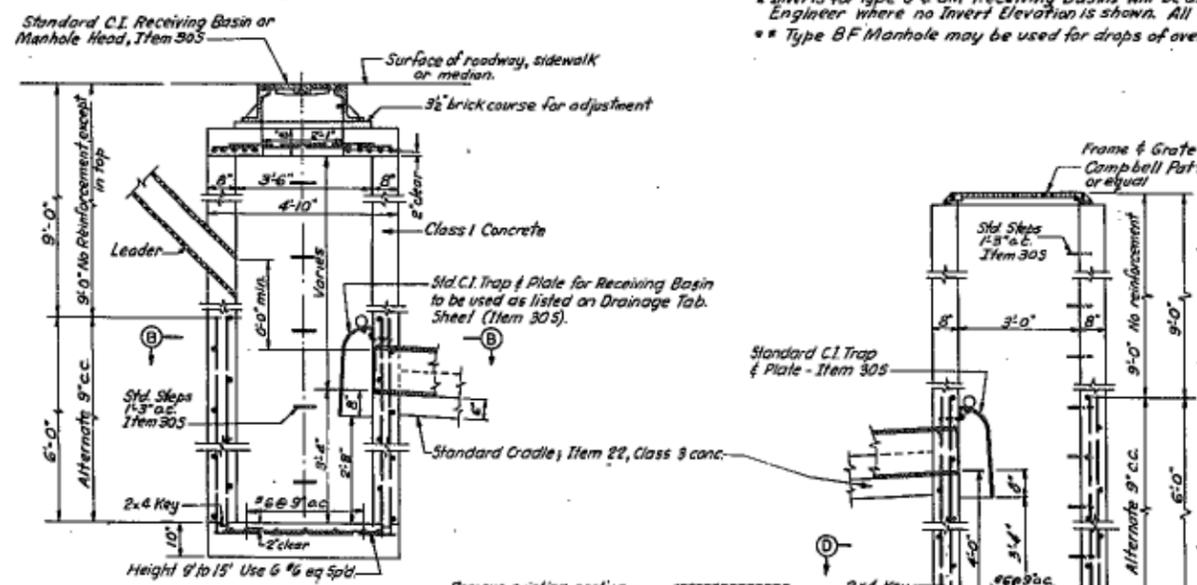
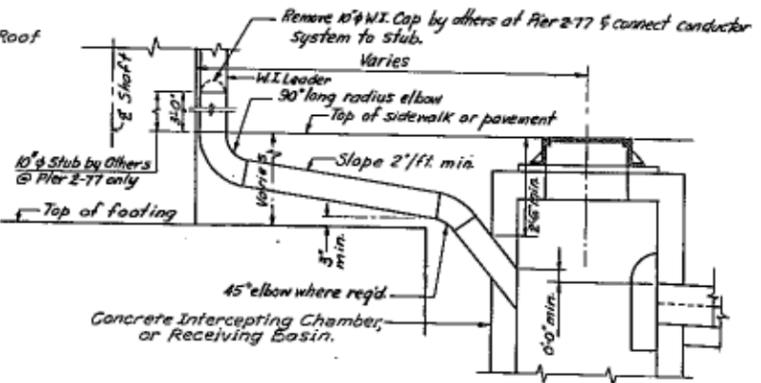
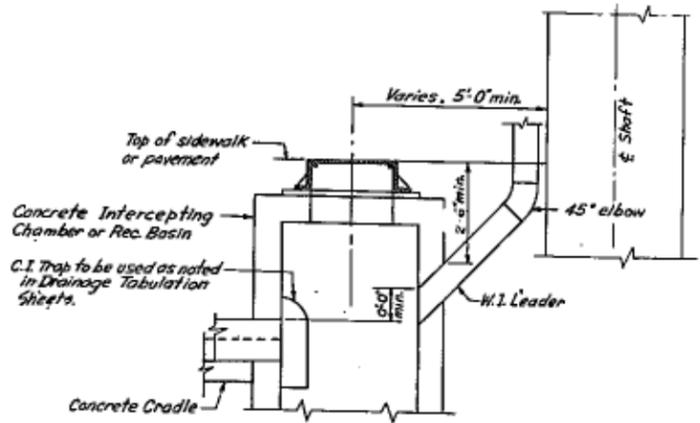
GRADING, DRAINAGE, STRUCTURES AND PAVING
FROM LAFAYETTE AVE. TO LOWELL ST.



NOTE:
For the structures listed below reference is made to Current Standard Sheets, President of the Borough of Bronx, as follows:

Structure	Item No.	Designation in Plans	Standards, President of Borough of Bronx, Title of Struct.	Standard Sheet No.
Manhole	102 S	Type BA	Shallow Manhole Details for 12" to 42" V.I.T. Pipe	1A
Manhole	102 S	Type BD	Intersection Manhole for Pipe Sewers 6" to 18" diam.	4
Manhole	102 S	Type BE	Intersection Manhole for Pipe Sewers 20", 24" & 30" diam.	4
Manhole	102 S	Type BF	Drop Manhole where drop is less than 5'-0" **	5
Cradles	22		Standard Details for Sewers	92
Steps	305			92
Head	305	Head Type I	Cast Iron Manhole Head	6
Head	305	" " II	Cast Iron Receiving Basin Head	22
Rec. Basin	102 S	Type G	Standard Receiving Basin, Type G	29
Inlet Frame	305		Cast Iron Frame & Plane Grating for Type G Basin	30
C.I. Trap	305	Trap	Cast Iron Trap for Receiving Basin	19A
Rec. Basin	102 S	Type GM	Modified Type G Receiving Basin *	29A

* Inverts for Type G & GM Receiving Basins will be as noted on the plans or as directed by the Engineer where no Invert Elevation is shown. All other dimensions will be as shown on Std. Sheets.
** Type BF Manhole may be used for drops of over 5' for storm sewers.



GENERAL DRAINAGE & UTILITY NOTES:

- All pipe to be reinforced concrete culvert pipe (Item 14) unless otherwise indicated.
- All water mains to be Cast Iron Pipe (Item 373) unless otherwise indicated.
- All water mains are to be placed so as to have a minimum cover of approximately four feet, unless otherwise noted.
- All Type D Drop Inlets shall have a Type III Cast Frame and Fabricated Steel Frame unless otherwise noted.
- All Type BE, Type BD, Type BF and Type BA Manholes shall have a Type I Cast Iron Manhole Head if they are located in the pavement and a Type II Cast Iron Receiving Basin Head if located in the median or sidewalk areas.
- All sewer pipes in earth shall be laid on concrete cradles (Item 22) and the trench backfilled with selected material (Item 2E-F-B) as shown on Sheet 23.
- All sewer pipes laid in rock, shall be bedded on selected material (Item 2E-F-B), and the trench backfilled with selected material (Item 2E-F-B) as shown on Sheet 23.
- The location of all underdrains shown on the plans is schematic. For true location, see typical underdrain section.
- When new sewers and water mains are installed outside grading and paving limits as indicated on the plans, the following additional payment items shall apply:
 - Replacing removal of street pavements - Concrete Foundation for Pavement, Item 46 S, and Asphalt Concrete, Item 51 A.
 - Replacing removal of Sidewalks - Concrete Sidewalk, Item 105 S.

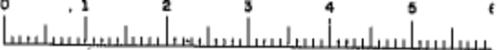
BRUCKNER EXPRESSWAY SECTION I

DETAILS OF DRAINAGE STRUCTURES

DRAWING NO.	SCALE	DATE	SHEET NO.
3-6-23	1" = 1'-0"	3-31-50	30

HOWARD, NEEDLES, TAMM & BERENSON
CONSULTING ENGINEERS
NEW YORK MANHASSETT CITY

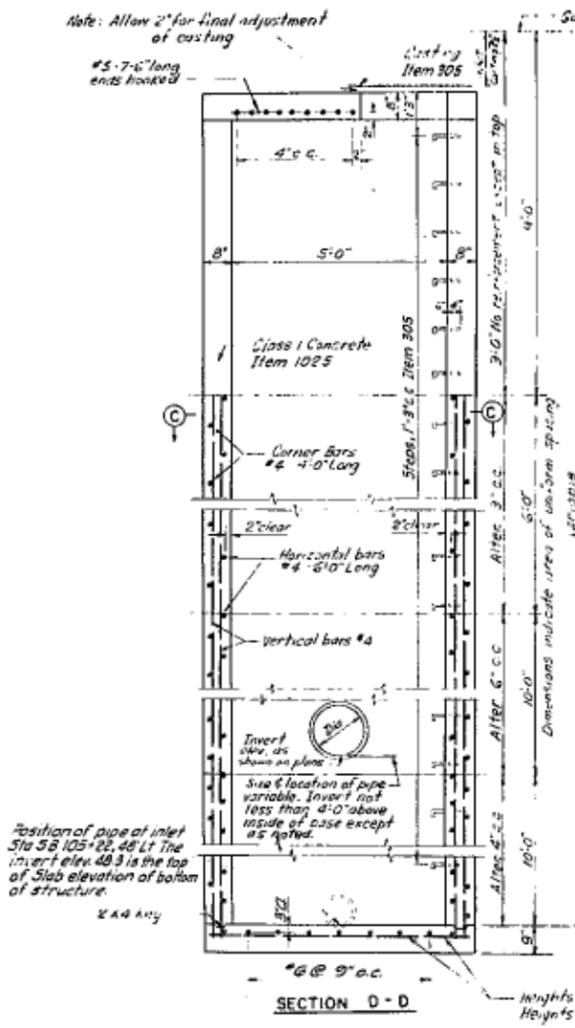
In Charge of R.E.K.
Made by F.K.R. & S.L.S.
Traced by F.K.R. & S.L.S.
Checked by R.O.B. & S.L.M.



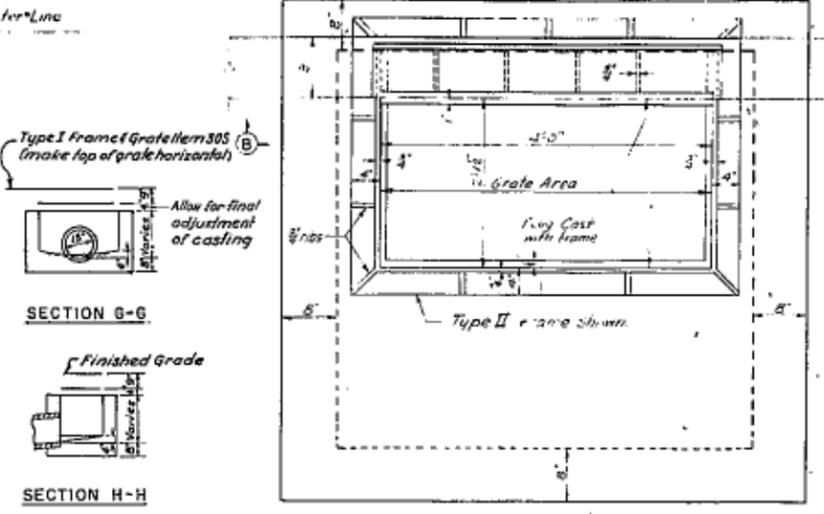
F18E 60-1

CONTRACT NO. 3					
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	NY			318	318

GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE TO LOWELL ST



SECTION D-D



TYPE D - PLAN

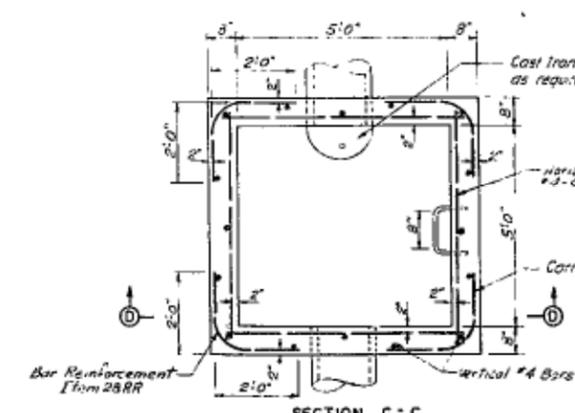
SECTION G-G

SECTION H-H

SECTION H-H

DROP INLET-TYPE D

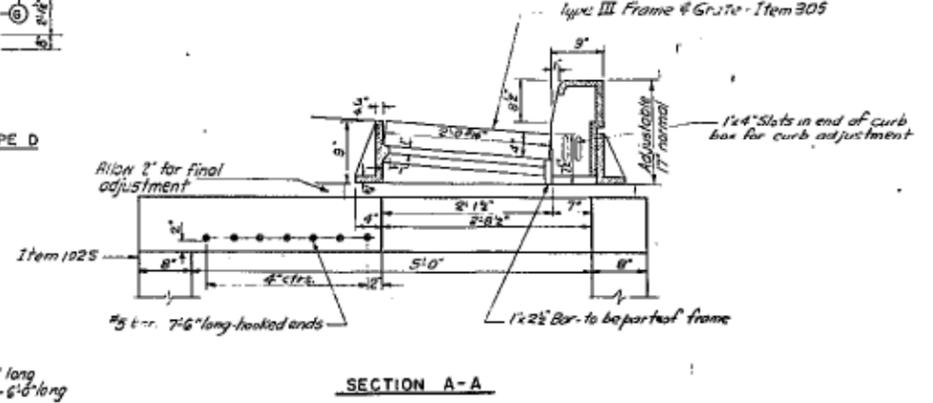
1'-4'-0" Item 1025



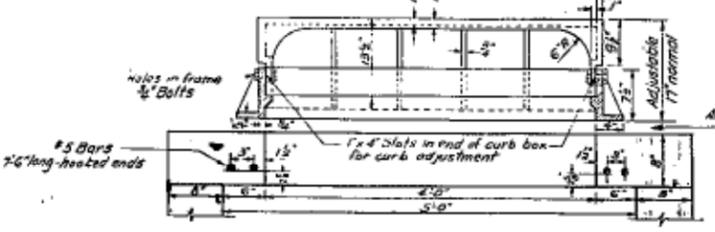
SECTION C-C

TYPE D ITEM 1025

Scale: 3/4"=1'-0"

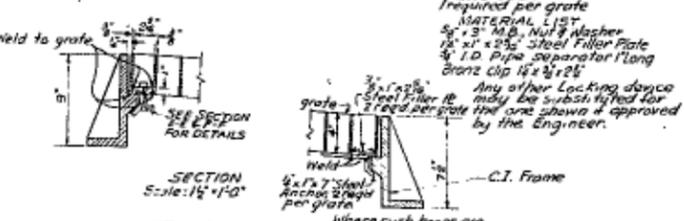


SECTION A-A



SECTION B-B

1'-1'-0"

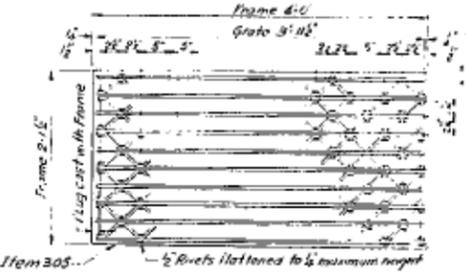


DETAILS OF GRATE LOCKING DEVICE

ITEM 305

Use on Frame & Grate Type III

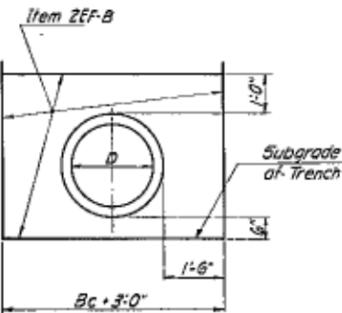
Straight bars 4 x 1/2
Reinforcing bars 1 1/2 x 3/8
Reinforcing bars to be flush with slanted bars at top of grate



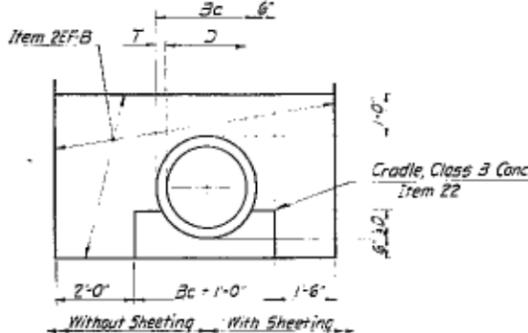
DETAIL OF FABRICATED STEEL GRATE

(TO BE USED WITH TYPE III FRAME)

Scale: 1"=1'-0"



ROCK CONDITION



EARTH CONDITION

PAYMENT LINES FOR ITEM 2EF-B

1/2"=1'-0"

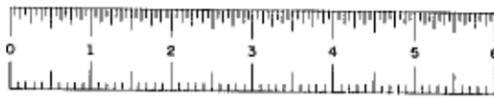
NOTES:

- Each grate and cover shall be set evenly on the bearing lugs of its frame, so that no vertical movement or rocking occurs under traffic. Grates, covers and/or frames which can not be adjusted to meet this requirement will be rejected.
- For other than the Fabricated Steel Grates, all manhole covers, frames, curb bases and cast gratings shall meet the requirements of ASTM Specifications for: Steel Castings serial designation A27 Grade 65-55, Iron Castings serial designation A48 Class 20, or Malleable Iron Castings serial designation A47 Grade 32510, at the contractor's option.

In Charge of REX
Made by FFR BDL
Traced by FFR BDL
Checked by RDB SIM

G. H. BROWN
AS BUILT

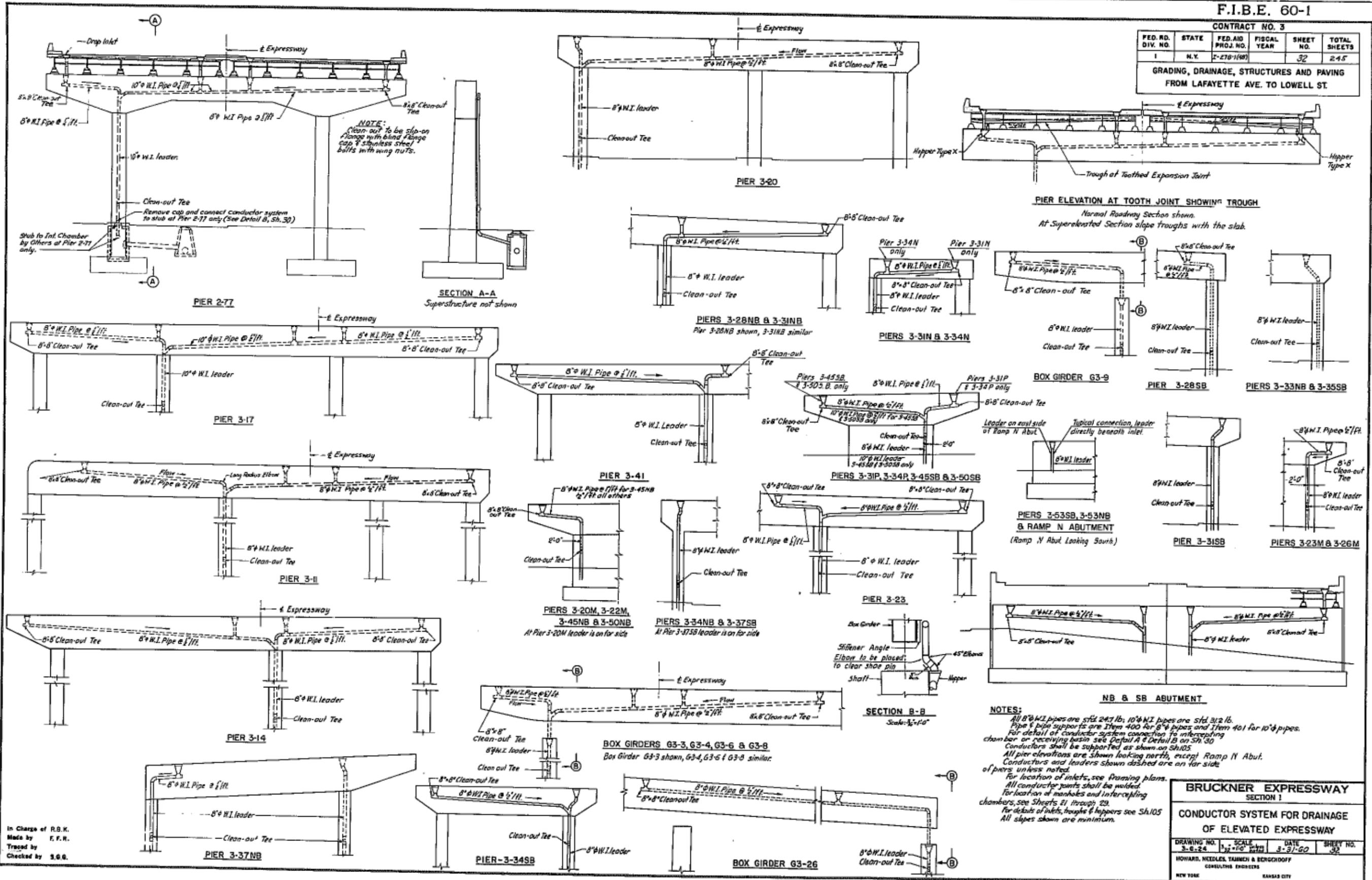
BRUCKNER EXPRESSWAY SECTION I			
DETAILS OF DRAINAGE STRUCTURES			
DRAWING NO.	SCALE	DATE	SHEET NO.
3-6-23a	As Shown	3-31-50	3181
HOWARD, NEEDLES, TAMMEN & BERENSON CONSULTING ENGINEERS NEW YORK NEW YORK CITY			



F I B E 6 0 0 0 1

F.I.B.E. 60-1

CONTRACT NO. 3					
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	2-278-1(98)		32	245
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.					

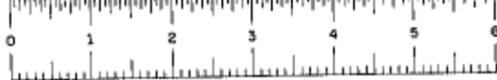


NOTE:
Clean-out to be slip-on
flange with blind flange
cap & stainless steel
bolts with wing nuts.

NOTES:
All 8\"/>

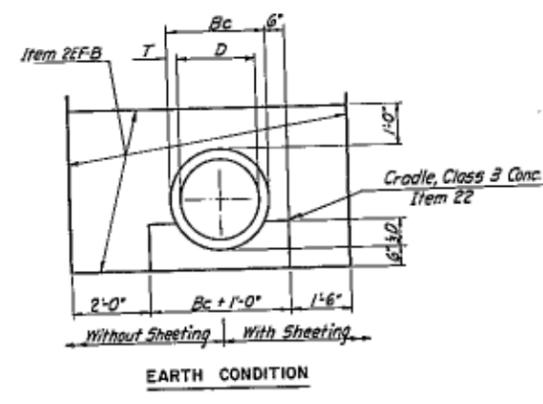
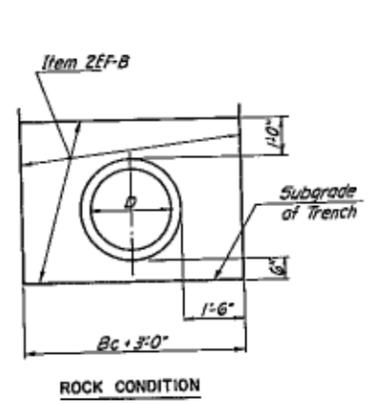
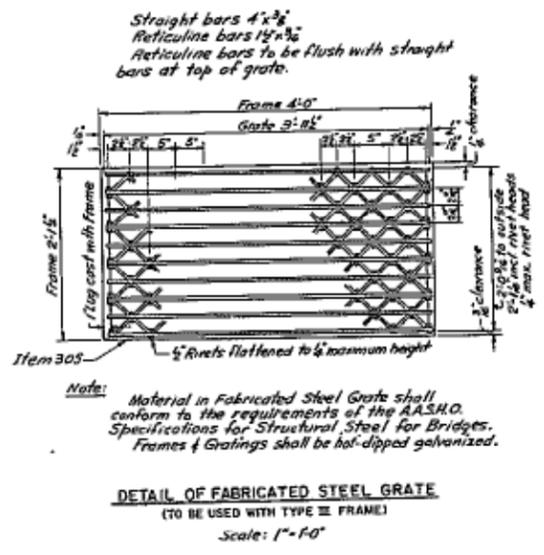
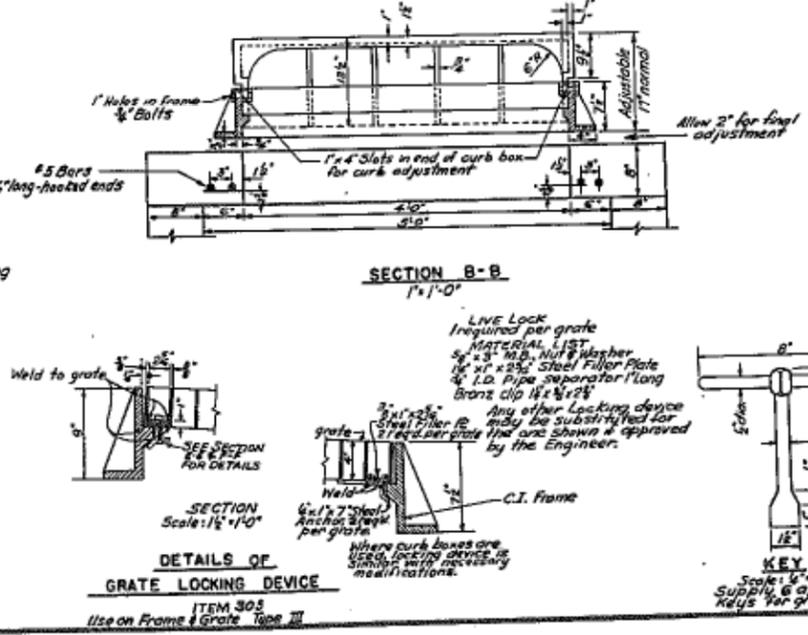
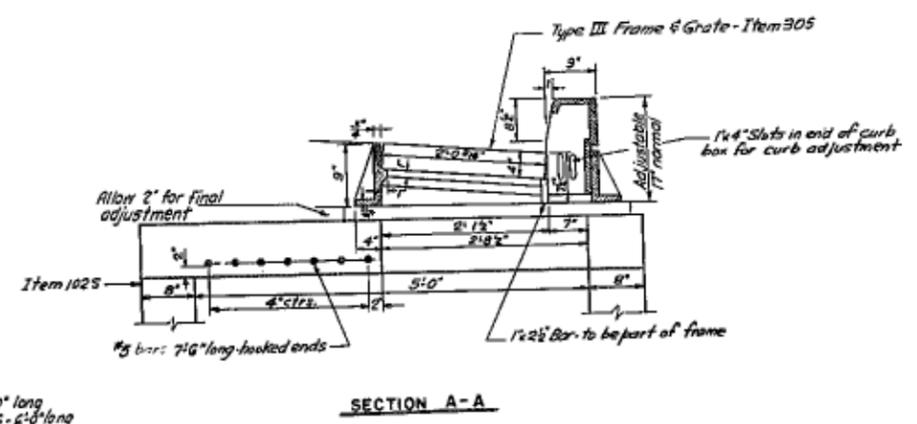
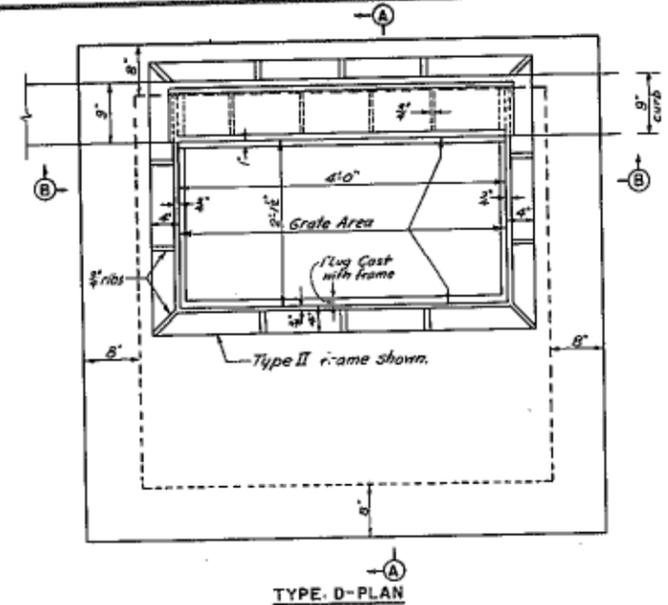
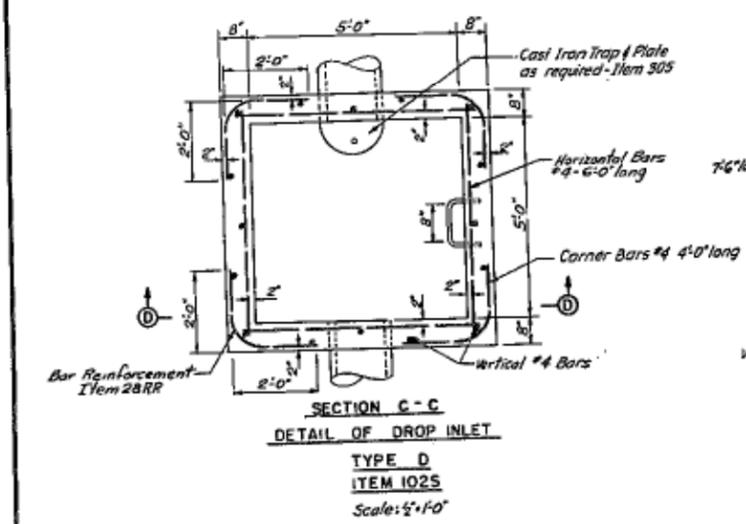
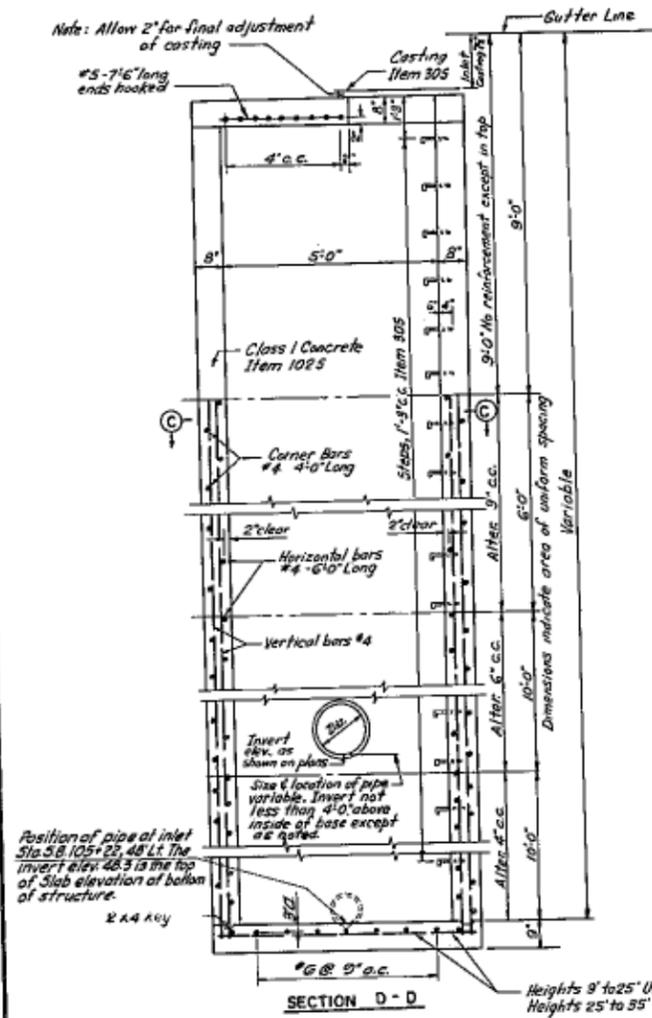
In Charge of R.B.K.
Made by F.F.R.
Traced by
Checked by S.G.

BRUCKNER EXPRESSWAY SECTION 1			
CONDUCTOR SYSTEM FOR DRAINAGE OF ELEVATED EXPRESSWAY			
DRAWING NO.	SCALE	DATE	SHEET NO.
3-6-24	1/2\"/>		
HOWARD, NEEDLES, TAMM & BERGENCOFF CONSULTING ENGINEERS NEW YORK KANSAS CITY			



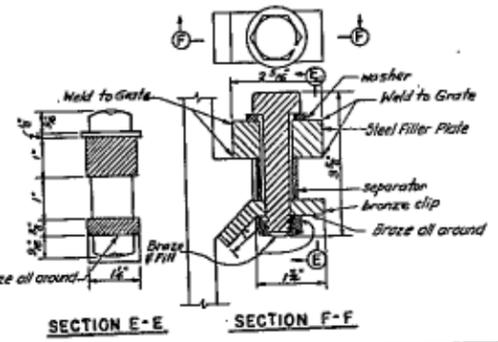
F.I.B.E. 60-1

CONTRACT NO. 3					
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	P-278-1660		31	245
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.					



PAYMENT LINES FOR ITEM 2EF-B

- NOTES:**
- Each grate and cover shall be set evenly on the bearing lugs of its frame, so that no vertical movement or rocking occurs under traffic. Grates, covers and/or frames which cannot be adjusted to meet this requirement will be rejected.
 - For other than the Fabricated Steel Grates, all manhole covers, frames, curb boxes and cast gratings shall meet the requirements of A.S.T.M. Specifications for: Steel Castings serial designation A27 Grade 65-35, Iron Castings serial designation A48 Class 20, or Malleable Iron Castings serial designation A47 Grade 32510, at the contractor's option.



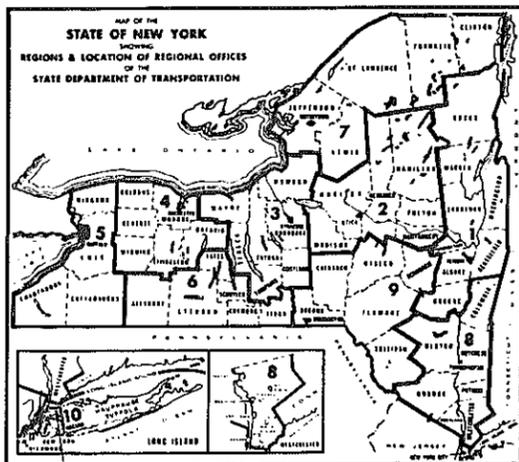
BRUCKNER EXPRESSWAY			
SECTION I			
DETAILS OF DRAINAGE STRUCTURES			
DRAWING NO.	SCALE	DATE	SHEET NO.
3-6-236	As Shown	3-31-60	31
HOWARD, NEEDLES, TAMM & BERNSHOFF			
CONSULTING ENGINEERS			
NEW YORK	NEW YORK		NEW YORK

In Charge of R.B.K.
 Made by R.P.R. & S.L.L.
 Traced by R.P.R. & S.L.L.
 Checked by R.D. & S.L.M.

Appendix E – As-Built Records for NYCT Subway Tunnels

(REDACTED)

Appendix F – As-Built Records for Contract D252685



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

REHABILITATION OF ROUTE 1-278 VIADUCT EAST OF TRIBORO BRIDGE
STATE HIGHWAYS BE 57-3, BE 58-4 AND BE 60-1
IN NEW YORK CITY

BRONX COUNTY

90 SHEETS

CONTRACT D252685

F.A. PROJECT IR-278-1 (238)

RECORD PLANS

STANDARD SHEETS
502-1R2, 502-7R2, 619-3R3, 619-4R2, 644-3, 644-4,
644-5, 644-6, 644-7, 645-7, 645-8R1, 645-13R1,
645-14R2

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY
AND IN CONFORMITY WITH THE SPECIFICATIONS OF JANUARY 2, 1985,
AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE
PLANS AND IN THE ITEMIZED PROPOSAL.

WHEREVER ON THESE PLANS OR IN THE PROPOSAL THE "OLD ITEMS" LISTED BELOW APPEAR THE "NEW ITEMS" SHALL APPLY.	
OLD ITEM	NEW ITEM
11001	11566.0105
11002	11566.0205
11003	11587.10
11004	11587.20
11005	11587.30

"CHANGES MADE TO THESE PLANS AND RELATED CONTRACT DOCUMENTS SINCE COMPLETION BY THE CONSULTING ENGINEER MAY BE DETERMINED BY COMPARISON WITH SUCH PREFINAL PLANS AND RELATED DOCUMENTS FILED AT THE REGIONAL OFFICE OR THOSE FILED AT THE OFFICE OF THE CONSULTING ENGINEER."

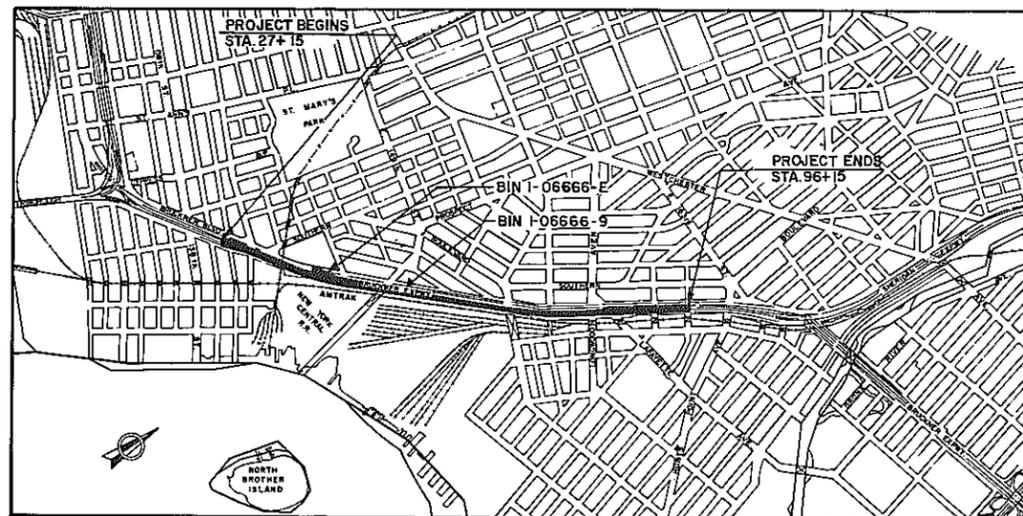
AS-BUILT REVISIONS

CONTRACT INFORMATION ADDED

John J. Lenehan 04-3929 7/9/93
SIGNATURE DATE

CONTRACTOR'S NAME DeFoe Corporation
AWARD DATE 08/25/89
COMPLETION DATE 09/29/92
FINAL ACCEPTANCE DATE 11/18/92
REGIONAL DIRECTOR M. MICHAEL FRANCISE, P.E.
ENGINEER IN CHARGE JOHN J. LENEHAN, P.E.
FINAL COST TOTAL \$ 24,649,978.96

FISCAL SHARE	COST(S)
01	\$ 24,641,753.44
02	\$ 8,225.52



LOCATION PLAN
SCALE: 1/4"=1000'

THE CONTRACT LIMITS ARE TO BE THE NORTH BOUND ENTRANCES FROM THE TRIBORO BRIDGE-BRONX APPROACH AND THE MAJOR DEEGAN EXPRESSWAY IN THE VICINITY OF ST. ANN'S AVE. AND THE SOUTHBOUND APPROACHES FROM THE SHERIDAN EXPRESSWAY IN THE VICINITY OF JENNINGS STREET AND THE SOUTHBOUND BRUCKNER EXPRESSWAY ENTRANCE AT UNDERHILL AVENUE.

NEW YORK CITY MAINTENANCE NOTE

ALL WORK DONE UNDER THIS CONTRACT, WHEN COMPLETED, WILL BE MAINTAINED BY THE CITY OF NEW YORK IN ACCORDANCE WITH THE HIGHWAY LAW BY ARTICLE 12, SECTION 340B IF INTERSTATE, AND BY ARTICLE 12B, SECTION 349C IF ARTERIAL.

ALL EXISTING SANITARY AND OTHER SEWERS NOT DEEMED TO BE PART OF THE PROJECT BY THE COMMISSIONER, WATER MAINS, HYDRANTS, AND OTHER MUNICIPALLY OR PRIVATELY-OWNED FACILITIES WITHIN THE LIMITS OF THE R.O.W. WHICH REMAIN IN SERVICE UNCHANGED, AND ALL SUCH FACILITIES RELOCATED OR PROTECTED AS PART OF THE WORK PERFORMED UNDER THE PROJECT WHETHER CROSSING, LOCATED WITHIN, OR ADJACENT TO THE R.O.W., SHALL BE MAINTAINED, AS THE CASE MAY BE, BY THE MUNICIPALITY, OR BY THE AGENCY OR UNIT HAVING CONTROL OR JURISDICTION THEREOF, AT NO COST OR EXPENSE TO THE STATE.

APPROVED PURSUANT TO THE PROVISIONS OF ARTICLE 12B, SECTION 349C, OF THE HIGHWAY LAW BY THE MAYOR OF THE CITY OF NEW YORK.

APPROVED BY: *Ross Sandler* 2/27/89
ROSS SANDLER
COMMISSIONER
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

APPROVED BY: *Harry Kramis* 2/23/89
HARRY KRAMIS, P.E.
DEPUTY ASSISTANT COMMISSIONER
OFFICE OF CONSTRUCTION COORDINATION
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

THE SERVICE LIFE OF THE CITY OWNED UTILITIES TO BE REPLACED AS SHOWN ON THE PLANS, HAS NOT BEEN EXTENDED.

PREPARED AND RECOMMENDED BY
BLAUVELT ENGINEERING CO.

H.C. Margolis
H.C. MARGOLIS P.E.

RECOMMENDED BY

J.M. Manzillo 12-20-89
J.M. MANZILLO P.E.

RECOMMENDED BY

M.M. Francese 2/21/89
M. MICHAEL FRANCISE, P.E.

RECOMMENDED BY

Fred Pascopella 2-21-89
REGIONAL DIRECTOR OF CONSTRUCTION
F. PASCOPELLA P.E.

RECOMMENDED BY
R. Schmalz
REGIONAL DESIGN ENGINEER
R. SCHMALZ P.E.

RECOMMENDED BY
E. Petrou 2/4/89
REGIONAL CONSTRUCTION ENGINEER
E. J. PETROU P.E.

RECOMMENDED BY
A. Edelstein 1/31/89
REGIONAL MAINTENANCE ENGINEER
A. EDELSTEIN P.E.

RECOMMENDED BY
F. Lin
REGIONAL TRAFFIC ENGINEER
F. LIN P.E.

RECOMMENDED BY
I. Deitch 12/27/88
REGIONAL STRUCTURES ENGINEER
I. DEITCH P.E.

INDEX ON SHEET NO. 2

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR DATE

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

Approved: *Robert K. Radloff* 2-3-89
for Robert K. Radloff 19 89
Acting in his capacity as
J.R. LAMBERT Director, Facilities Design Division

Approved: *John M. Robb* 2-3-89
Acting in his capacity as
JOHN M. ROBB Director, Structures Division

APPROVED BY

S. Schwartz 2-27-89
SAMUEL I. SCHWARTZ, P.E.
CHIEF ENGINEER/
FIRST DEPUTY COMMISSIONER
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

NEW YORK STATE DEPARTMENT OF TRANSPORTATION

Approved: *Richard A. Witka* 19 89
Acting in his capacity as
RICHARD A. WITKA Director, Operations Section

BRUCKNER EXPRESSWAY			
STATION 28+96.45 TO STATION 82+28.55			
BRONX COUNTY			
P.I.N. X729.99	B.I.N. I-06666-9		
FED ROAD REG. NO	STATE	SHEET NO	TOTAL SHEETS
1	NY	1R1	90
FEDERAL AID PROJECT NO.		IR-278-1 (238)	
CAPITAL PROJECT IDENTIFICATION NO.		X729.99.311	

DESIGNED BY

CHECKED BY
DRAFTED BY
ESTIMATED BY

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (238)	2R1	90
I-278 OVER VARIOUS LOCATIONS				
PIN X72999			BIN I-06666-9	
			BIN I-06666-E	

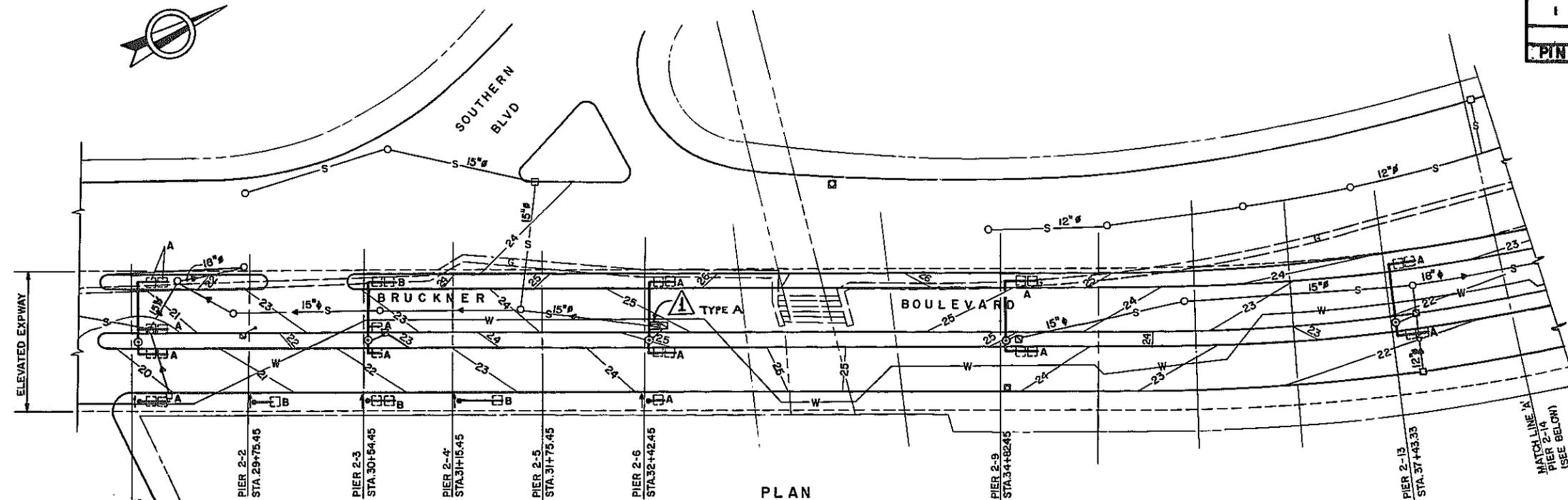


SHEET NO.	DWG NO.	TITLE			
1R1	--	TITLE SHEET	50	STD-3	DECK JOINT RECONSTRUCTION DETAIL I
2R1	LD-1	LIST OF DRAWINGS	51	STD-4	DECK JOINT RECONSTRUCTION DETAIL II & III
3R1	0-1	ESTIMATE OF QUANTITIES	52	STD-5	ARMORED DECK JOINT PLAN & SECTIONS
4R1	GN-1	GENERAL NOTES - I	53	STD-6	ARMORED DECK JOINT DETAILS
5R1	GN-2	GENERAL NOTES - II	54R1	SD-1	NEW CONCRETE SLAB & PARAPET AT DECK JOINTS
6R1	MT-1	MAINTENANCE OF TRAFFIC NOTES			
7R1	MT-2	SOUTHERLY PORTION - STAGE I	55R1	SD-2	SLAB SURVEY DETAILS & CONCRETE REPAIR DETAIL
8R1	MT-3	CENTRAL PORTION - STAGE I			
9R1	MT-4	NORTHERLY PORTION - STAGE I	56	SD-3	DETAILS FOR STRUCTURAL SLAB REPAIR PREPARATION
10R1	MT-5	SOUTHERLY PORTION - STAGE II			
11R1	MT-6	CENTRAL PORTION - STAGE II	57R1	SD-5	CONCRETE BLISTER DETAILS & SAFETY WALK TRANSITIONS
12R1	MT-7	NORTHERLY PORTION - STAGE II			
13R1	MT-8	SOUTHERLY PORTION - STAGE III	58	SD-6	BEARING REPAIRS, REPAIR DETAIL FOR BOX GIRDER
14R1	MT-9	CENTRAL PORTION - STAGE III			
15R1	MT-10	NORTHERLY PORTION - STAGE III	59	AS-1	RAMP APPROACH SECTIONS
16R1	MT-11	SOUTHERLY PORTION - STAGE IV	60R1	AS-2	RAMP APPROACH DETAILS
17R1	MT-12	CENTRAL PORTION - STAGE IV	61R1	AB-1	RAMP RE ABUTMENT REPAIRS
18R1	MT-13	NORTHERLY PORTION - STAGE IV	62	SD-4	GORE TREATMENT AT RAMP RE
19R1	MT-14	SOUTHERLY PORTION - STAGE V	63R1	DP-1	DRAINAGE PLAN I
20R1	MT-15	CENTRAL PORTION - STAGE V	64	DP-2	DRAINAGE PLAN II
21R1	MT-16	NORTHERLY PORTION - STAGE V	65	DP-3	DRAINAGE PLAN III
22	MT-17	SOUTHERLY PORTION - STAGE VI	66R1	DD-1	DOWNSPROUTING LAYOUT
23	MT-18	CENTRAL PORTION - STAGE VI	67R1	DD-2	DOWNSPROUTING LAYOUT AND DETAILS
24	MT-19	NORTHERLY PORTION - STAGE VI	68R1	DD-3	DOWNSPROUTING DETAILS
25R1	MT-20	SOUTHERLY PORTION - STAGE VII	69R1	STD-2	BRIDGE DRAIN DETAILS
26R1	MT-21	CENTRAL PORTION - STAGE VII	70	SD-7	SUPPORT DETAIL FOR SIGN STRUCTURE
27R1	MT-22	NORTHERLY PORTION - STAGE VII	71R1	SD-8	SUPPORT DETAIL FOR SIGN IN MEDIAN & CONTINUITY PLATE DETAIL
28R1	MT-23	DETAILS - I			
29R1	MT-24	DETAILS - II	72	SD-644-1R1	OVERHEAD SIGN STRUCTURE, SINGLE CANTILEVER SIGN STRUCTURE
30R1	MT-25	DETAILS - III			
31	MT-26	DETAILS - IV	73R1	SD-644-2	OVERHEAD SIGN STRUCTURE, SPAN TYPE STRUCTURE
32	MT-27	DETAILS - V			
33	MT-28	DETAILS - VI	74R1	SP-1	STRIPING PLAN I
34	MT-29	TABLE OF TEMPORARY SIGNS - I	75R1	SP-2	STRIPING PLAN II
35	MT-30	TABLE OF TEMPORARY SIGNS - II	76R1	SP-3	TABLE OF PERMANENT SIGNS
36R1	MT-31	TABLE OF TEMPORARY SIGNS - III	77	BL-1	BAR BENDING DIAGRAM
37R1	GP-1	GENERAL PLAN I	78R1	BL-2	BAR LIST I
38R1	GP-2	GENERAL PLAN II	79R1	BL-3	BAR LIST II
39R1	GP-3	GENERAL PLAN III	80R1	BL-4	BAR LIST III
40R1	GP-4	GENERAL PLAN IV	81R1	E-1	WIRING PLAN, DIAGRAM & LIGHTING NOTES
41R1	GP-5	GENERAL PLAN V	82R1	E-2	ELECTRICAL DISTRIBUTION PLAN I
42	G-1	GEOMETRY PLAN I	83R1	E-3	ELECTRICAL DISTRIBUTION PLAN II
43	G-2	GEOMETRY PLAN II	84R1	E-4	ELECTRICAL DISTRIBUTION PLAN III
44	G-3	GEOMETRY PLAN III	85R1	E-5	ELECTRICAL DISTRIBUTION PLAN IV
45	VP-1	MAINLINE PROFILE	86R1	E-6	ELECTRICAL DISTRIBUTION PLAN V
46	VP-2	RAMP 'RE' PROFILE	87R1	E-7	LIGHTING DETAILS I
47R1	TS-1	TYPICAL SECTIONS	88R1	E-8	LIGHTING DETAILS II
48R1	FP-1	KEY FRAMING PLAN	89	E-9	ELECTRICAL LIGHT BRACKET DETAILS FOR SIGN STRUCTURES
49R1	STD-1	PARAPET & MEDIAN BARRIER DETAILS	90R1	E-10	ELECTRICAL DETAILS FOR SIGN STRUCTURES



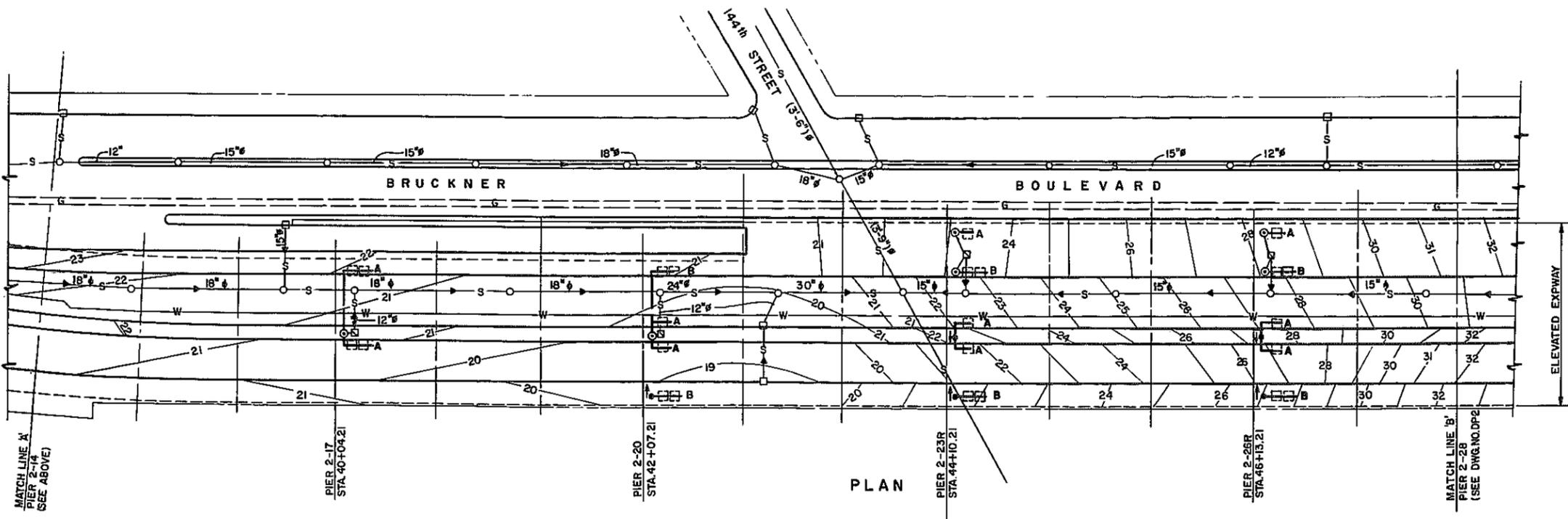
AS-BUILT REVISIONS			
	REVISED SHEET NUMBERS.		
	THIS SHEET (#58) IS REPLACED BY SHEET # 58A1R1		
	<i>John D. Lenihan 013927</i>	<i>7/7/93</i>	
	SIGNATURE	DATE	
LIST OF DRAWINGS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION BRUCKNER EXPRESSWAY			
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS, NEW YORK, N.Y.			
DRAWING NO LD-1	SCALE NONE	DATE 12/27/88	SHEET NO. 2R1

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (238)	63R1	90
1-278 OVER VARIOUS LOCATIONS				
PIN X729.99			BIN I-0666-E	
BIN I-0666-E				



NOTES

- FOR DOWNSPOUT LAYOUT AND DETAILS SEE DWG'S, DD-1 TO DD-3
- FOR BRIDGE DRAIN ADJUSTMENT AND NEW GRATING DETAILS SEE DWG. STD-2
- REPLACEMENT OF EXISTING GRATINGS SHALL BE DONE PRIOR TO SHIFTING THE TRAFFIC.
- THE ARROW AT PROPOSED SPLASH BLOCK DESIGNATES THE DIRECTION OF THE STORM FLOW.
- LOCATION AND SIZES OF EXISTING SEWER ARE SHOWN BASED ON "AS BUILT" DRAWINGS OF THE EXISTING STRUCTURE BUILT UNDER THE CONSTRUCTION CONTRACT FIBE 57-3.
- CONTOURS BASED ON CONTRACT FIBE 57-3.



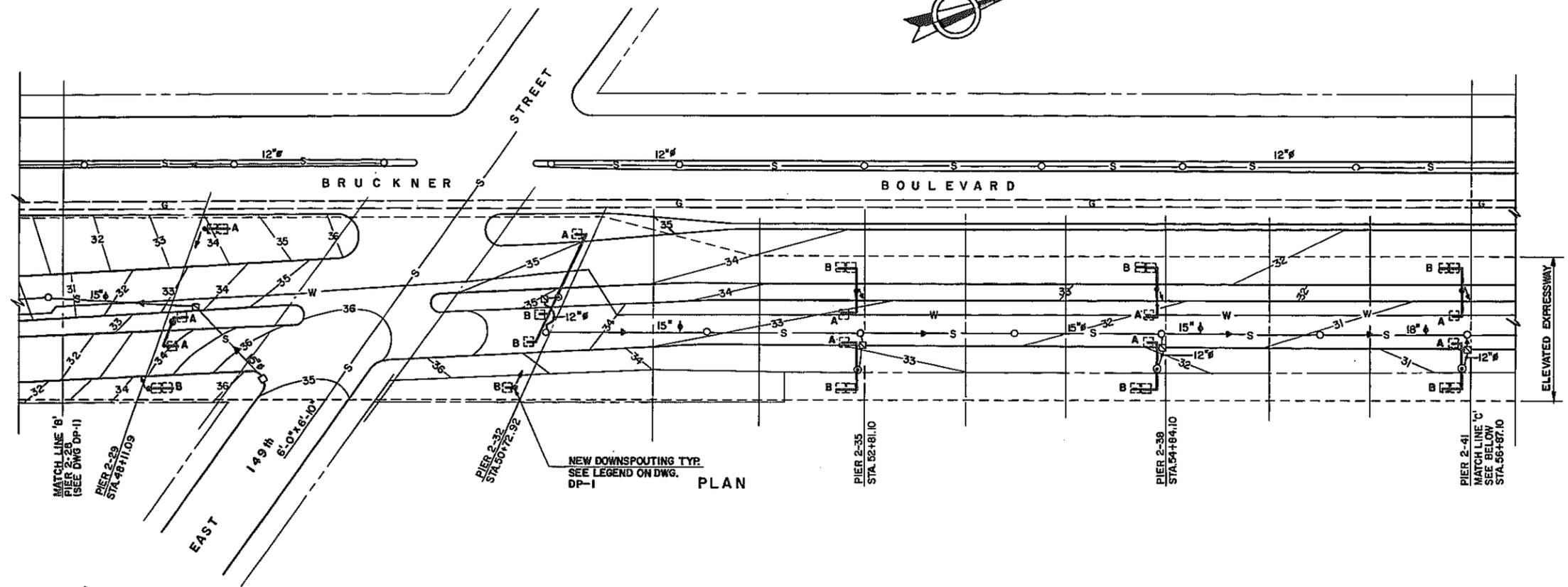
LEGEND

- EXIST. SCUPPER ON BRIDGE (LETTER DENOTES TYPE)
- NEW 12" DIA. DOWNSPOUT PIPING
- NEW 12" DOWNSPOUT WITH SPLASH BLOCK
- NEW 12" DOWNSPOUT WITH EXIST. HOPPER
- EXIST. RECEIVING BASIN
- EXIST. SEWER
- EXIST. WATER MAIN
- EXIST. GAS MAIN
- EXIST. CONTOUR ON BRUCKNER BLVD.

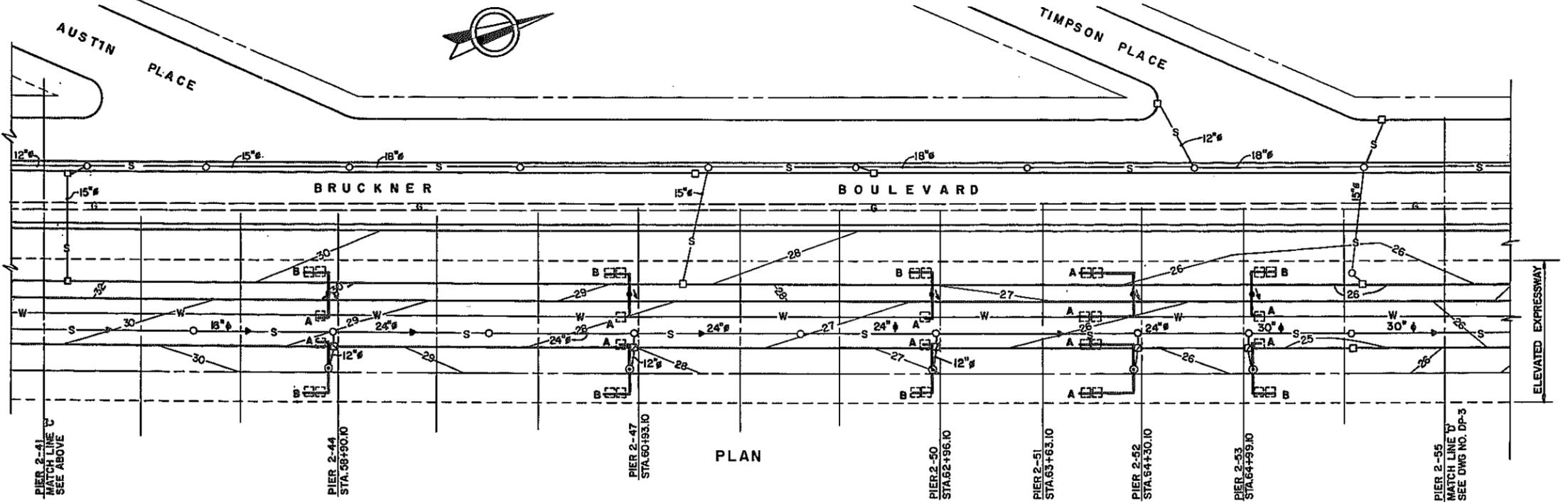
AS-BUILT REVISIONS	
	ADDING EXISTING SCUPPER, TYPE - A (NOT SHOWN)
<i>John D. Cavalon</i>	7/8/83
SIGNATURE	DATE
DRAINAGE PLAN I	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
BRUCKNER EXPRESSWAY	
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS, NEW YORK, N.Y.	
DRAWING NO. DP-1	SCALE 1" = 40'-0"
DATE 12/27/88	SHEET NO. 63R1

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	1R-278-1 (238)	64	90
1-278 OVER VARIOUS LOCATIONS				
PIN X729.95			BIN I-06666-9	
BIN I-06666-E				

NOTE
FOR LEGEND AND NOTES SEE DWG. NO. DP-1



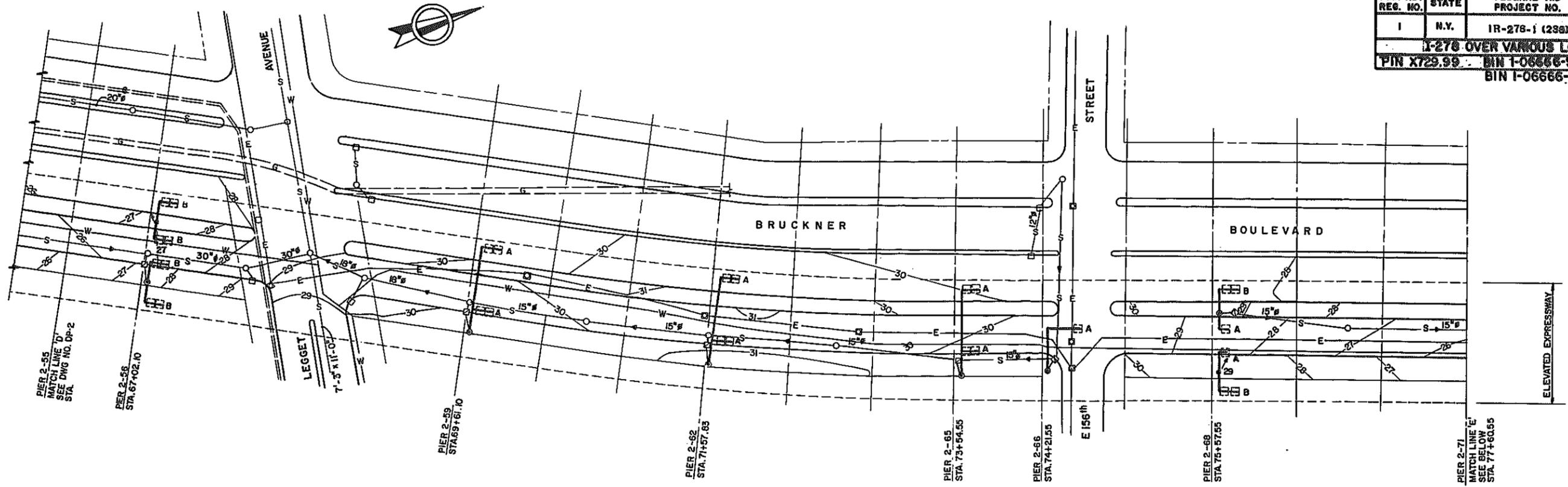
PLAN



PLAN

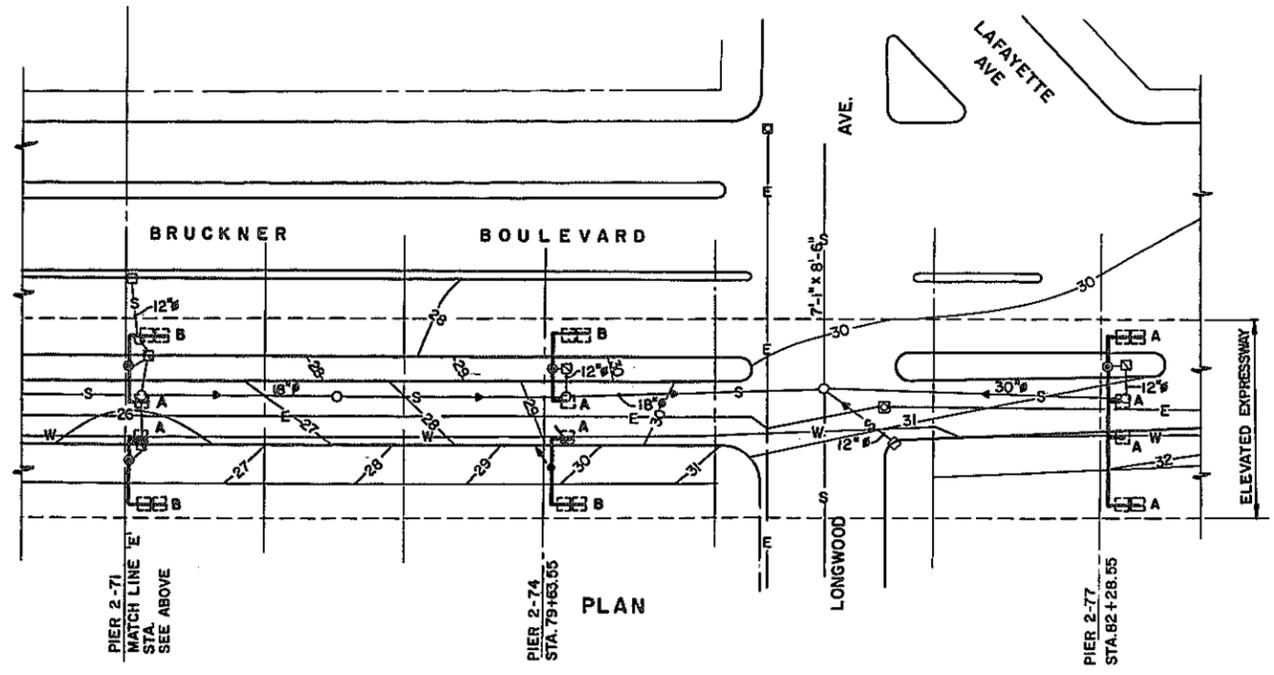
AS-BUILT REVISIONS	
SIGNATURE	DATE
DRAINAGE PLAN II	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION BRUCKNER EXPRESSWAY	
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS, NEW YORK, N.Y.	
DRAWING NO. DP-2	SCALE 1" = 40'-0"
DATE 12/27/88	SHEET NO. 64

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	1R-278-1 (288)	65	90
I-278 OVER VARIOUS LOCATIONS				
PIN X729.99 - BIN I-06666-9				
BIN I-06666-E				



PLAN

NOTE: FOR LEGEND AND NOTES SEE DWG. NO. DP-1

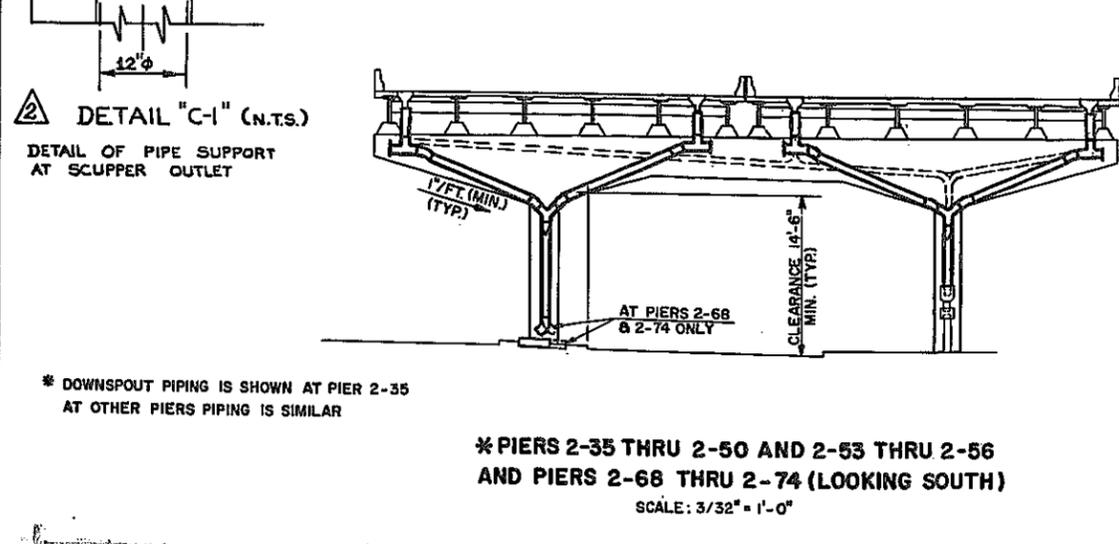
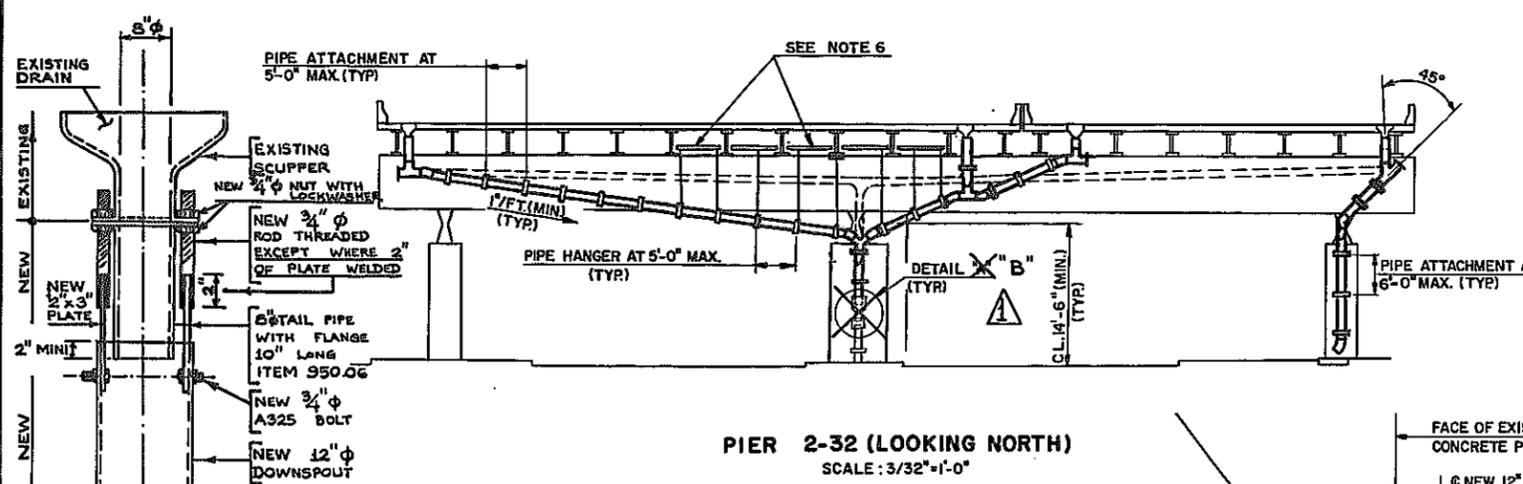
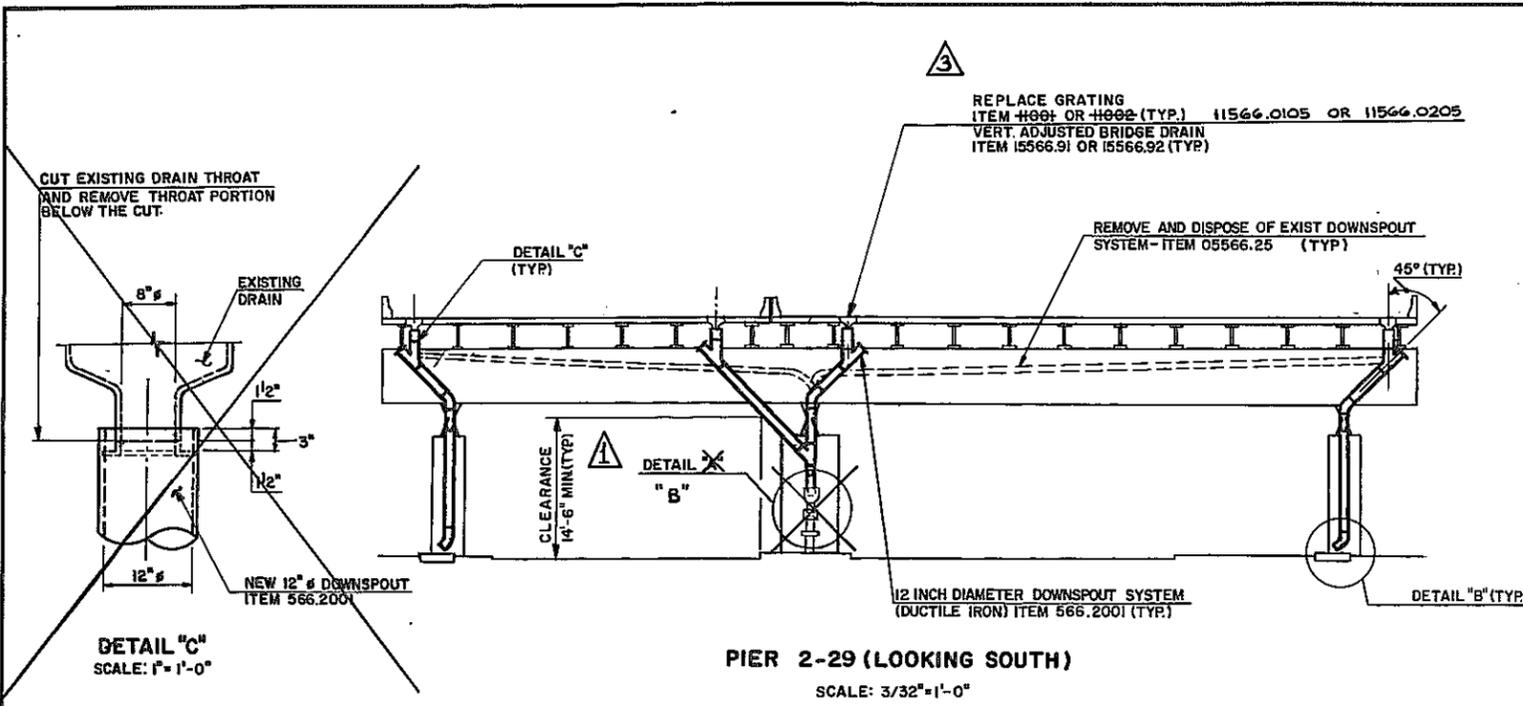


PLAN

AS-BUILT REVISIONS	
SIGNATURE	DATE
DRAINAGE PLAN III	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
BRUCKNER EXPRESSWAY	
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS, NEW YORK, N.Y.	
DRAWING NO. DP-3	SCALE 1"=40'-0"
DATE 12/27/88	SHEET NO. 65

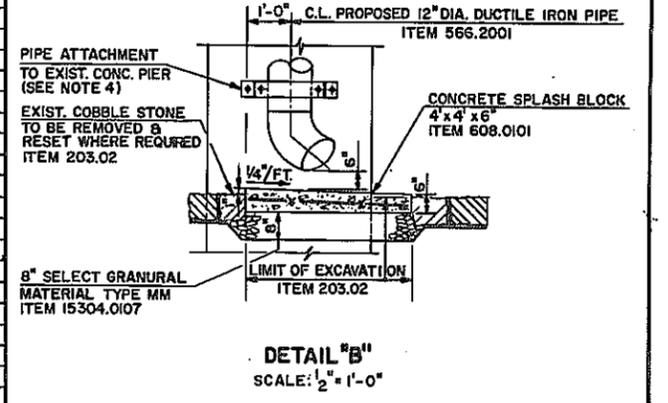
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (238)	67R1	90
I-278 OVER VARIOUS LOCATIONS				
PIN X729.99 BIN J-06666-9				

STRUCT.	PIER	TOP OF SLAB ELEVATION (±)	TOP OF PIER CAP ELEVATION (±)	ELEVATION AT GRADE (±)	APPROX. LENGTH OF PROPOSED DOWNSPOUT (±)
MAINLINE	2-1	50.9	43.8	20.0	170
	2-2	51.5	46.0	21.0	50
	2-3	52.1	46.8	22.0	155
	2-4	52.6	47.3	22.5	60
	2-6	53.5	48.3	24.5	160
	2-9	55.3	50.3	24.5	115
	2-13	57.3	52.0	22.0	120
	2-17	59.2	54.3	21.0	122
	2-20	60.7	55.8	20.0	175
	2-23	62.3	57.0	21.5	182
	2-26	63.8	58.5	26.5	168
	2-29	65.3	60.0	33.0	153
	2-32	66.3	60.8	34.5	173
	2-35	65.3	60.0	33.0	165
	2-38	64.3	59.0	32.0	165
	2-41	63.3	58.0	30.5	166
	2-44	62.2	57.0	29.0	167
	2-47	61.2	56.0	28.0	167
	2-50	60.2	55.0	26.5	167
	2-52	59.9	54.1	26.0	240
	2-53	60.3	55.0	25.5	172
	2-56	62.3	57.0	27.0	180
	2-59	64.9	59.5	30.0	142
	2-62	66.9	61.2	31.0	142
	2-65	68.9	63.2	30.0	146
	2-66	70.0	64.8	29.0	85
	2-68	70.9	66.0	28.6	186
2-71	72.9	67.6	28.0	195	
2-74	75.0	69.6	29.0	193	
2-77	77.6	72.3	31.0	200	
2-23R	44.7	39.6	23.0	25	
2-26R	59.0	53.0	28.0	35	



* DOWNSPOUT PIPING IS SHOWN AT PIER 2-35 AT OTHER PIERS PIPING IS SIMILAR

* PIERS 2-35 THRU 2-50 AND 2-53 THRU 2-56 AND PIERS 2-68 THRU 2-74 (LOOKING SOUTH) SCALE: 3/32"=1'-0"



- NOTES:**
- FOR DRAINAGE PLANS SEE DWG'S DP-1 TO DP-3
 - FOR DOWNSPOUT LAYOUT AT PIERS 2-1 THRU 2-20 AND 2-23R & 2-26R SEE DWG. DD-1
 - FOR LONGITUDINAL SECTION AT PIERS 2-52 & 2-66 SEE DWG. DD-1
 - FOR TYPICAL DOWNSPOUT DETAILS AND NOTES SEE DWG. DD-3
 - FOR PIPE HANGER SPACING SEE DWG. NO. DD-1. FOR PIPE HANGER DETAIL AND PIPE ATTACHMENT DETAIL, SEE DWG. NO. DD-3.
 - WHERE REQUIRED TO MAINTAIN DOWNSPOUT SUPPORTS SPACING AT 5'-0" MAXIMUM, CONTRACTOR SHALL PROVIDE STRUCTURAL STEEL SUPPORTS BETWEEN STRINGERS. COST TO BE INCLUDED IN THE COST OF DOWNSPOUT SYSTEM (DUCTILE IRON) ITEM 566.2001

- LEGEND**
- Ⓐ DETAIL "A" REPLACED BY DETAIL "B"
 - Ⓑ DETAIL "C" REPLACED BY DETAIL "C-1"
 - Ⓒ NEW ITEMS

AS-BUILT REVISIONS

SEE LEGEND ABOVE

John J. Lender 043929 7/8/93
 SIGNATURE DATE

DOWNSPOUTING LAYOUT AND DETAILS

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 BRUCKNER EXPRESSWAY

BLAUVELT ENGINEERING CO.
 CONSULTING ENGINEERS, NEW YORK, N.Y.

DRAWING NO. DD-2 SCALE AS SHOWN DATE 12/27/88 SHEET NO. 67R1

In Charge of
 Made By
 Traced By
 Checked By

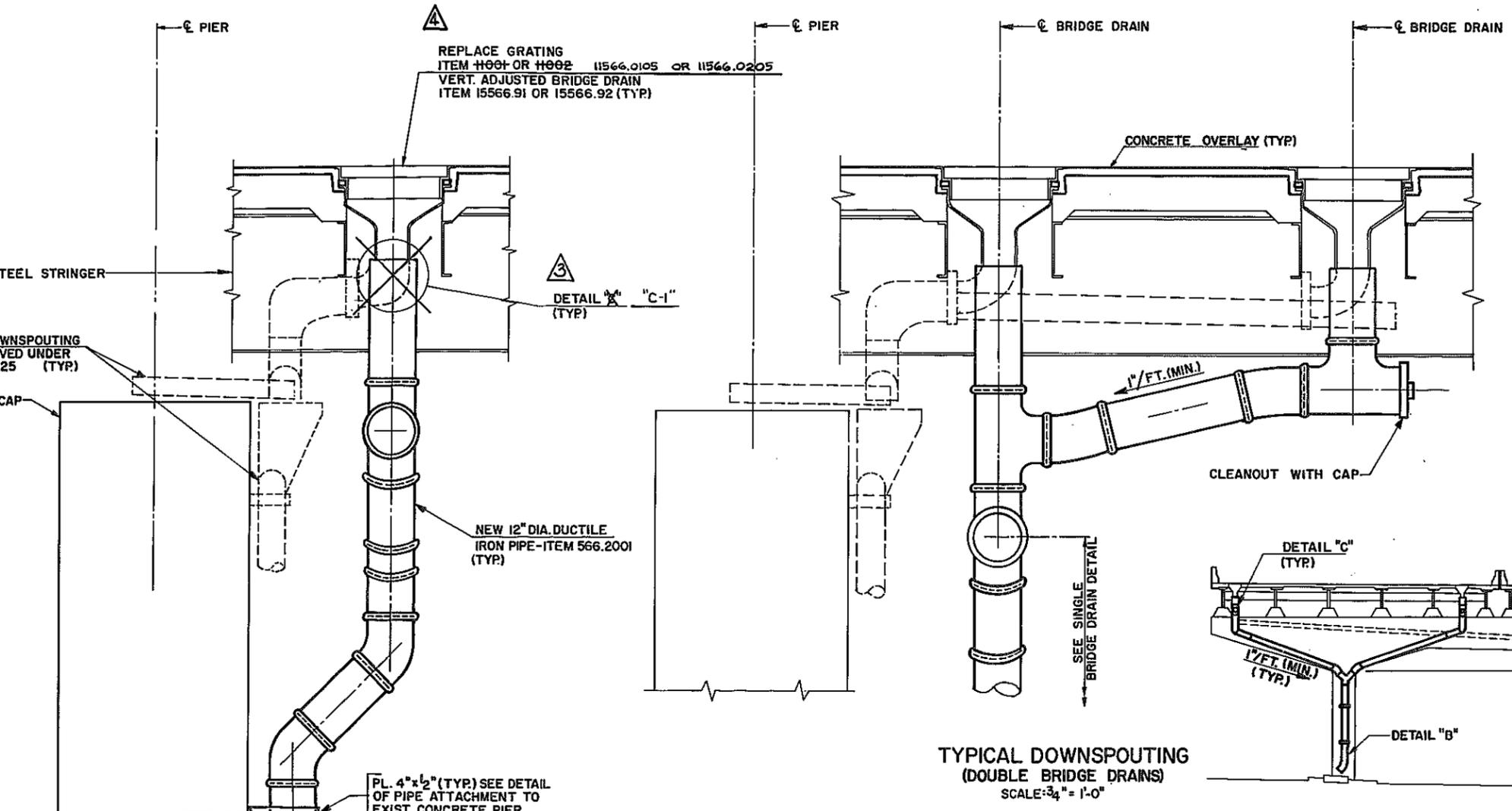
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (238)	68R1	90
I-278 OVER VARIOUS LOCATIONS				
PIN X729.99 BIN I-06666-9 BIN I-06666-E				

NOTES:

- REMOVAL AND DISPOSAL OF EXISTING DOWNSPOUTING SYSTEM PAID UNDER PRICE BID FOR ITEM 05566.25 "REMOVE AND DISPOSE OF DOWNSPOUT SYSTEM"
- INSTALLATION OF NEW DOWNSPOUT SYSTEM PAID FOR UNDER ITEM 566.2001 "DOWNSPOUT SYSTEM (DUCTILE IRON)" INCLUDES ALL REQUIRED SUPPORT MEMBERS.
- ALL NEW DOWNSPOUTING IS 12" DIA.
- FOR LAYOUTS OF NEW DOWNSPOUT, SEE DWG.NOS.DD-1 AND DD-2.
- FOR NEW GRATING AND BRIDGE DRAIN ADJUSTMENT DETAILS, SEE DWG. NO. STD-2.
- THE DOWNSPOUT LAYOUT AND DETAILS SHOWN ON DWGS DD-1, DD-2 AND DD-3 ARE GENERAL AND INDICATIVE OF THE ARRANGEMENT AND MATERIALS TO BE EMPLOYED FOR DOWNSPOUT PIPING. ACTUAL DETAILS EMPLOYED AT EACH LOCATION WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- FOR DETAILS A, B AND C SEE DWG. DD-2
- DUCTILE IRON PIPE SHALL CONFORM TO ASTM A377 (ANSI 21.51) CLASS 53.

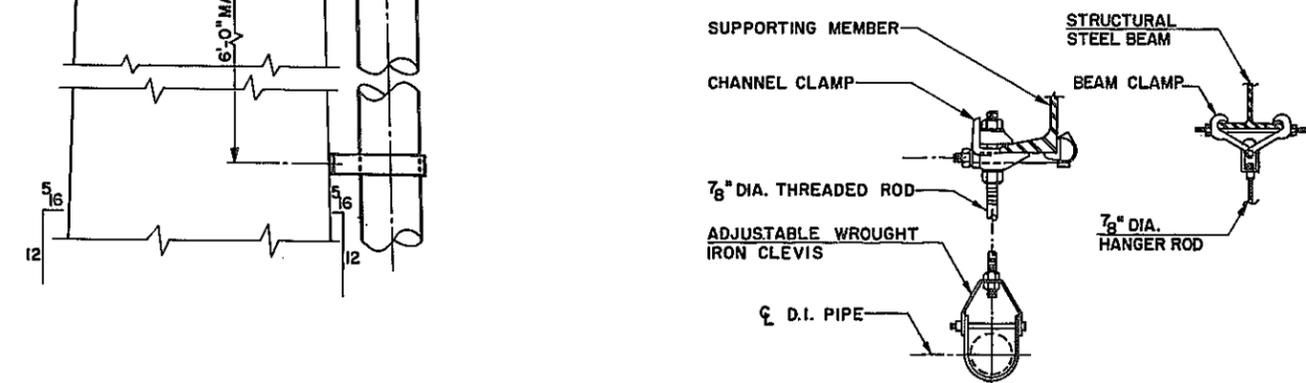
ADDITION TO NOTE 10
SCUPPERS ARE CAST IRON NOT PAINTED WITH EPOXY COAL TAR

- PAINTING OF NEW DOWNSPOUTING SHALL BE PAID FOR UNDER ITEM 18570.39 SHOP APPLIED STRUCTURAL STEEL PAINT SYSTEM.
- INSIDE SURFACES OF SCUPPERS TO BE PAINTED WITH TWO COATS OF COAL TAR EPOXY COATING. PAYMENT SHALL BE INCLUDED IN ITEMS 11566.91 & 11566.92

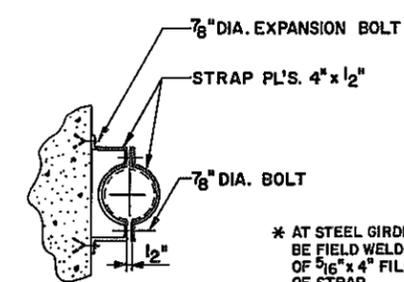


TYPICAL DOWNSPOUTING (DOUBLE BRIDGE DRAINS)
SCALE: 3/32" = 1'-0"

PIER 2-52 (LOOKING NORTH)
SCALE: 3/32" = 1'-0"



PIPE HANGER DETAILS
N.T.S.



PIPE ATTACHMENT TO EXISTING CONCRETE PIER *
N.T.S.

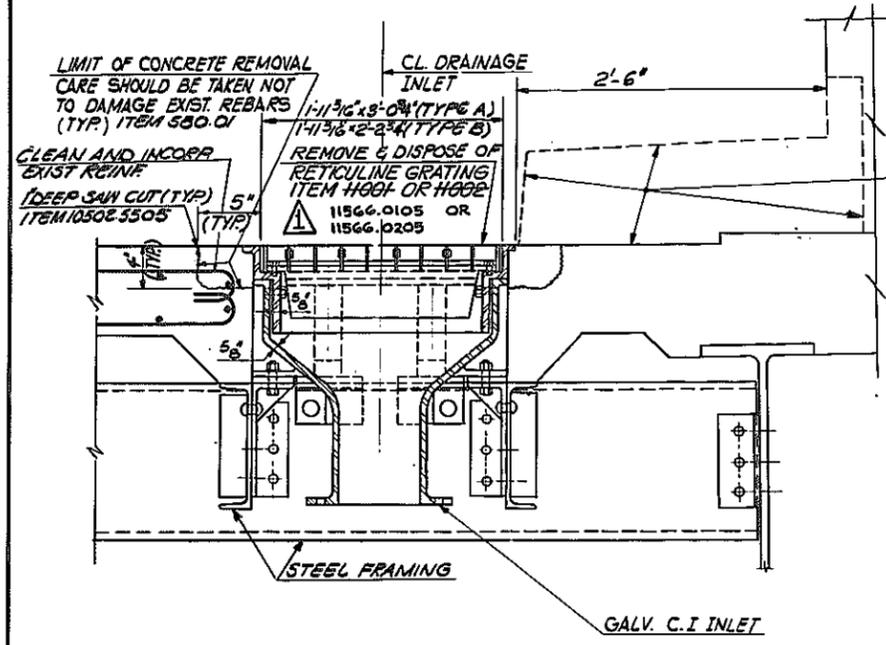
- LEGEND
- ▲ ADDITION TO NOTE 10
 - ② DETAIL "A" REPLACED BY DETAIL "B"
 - ③ DETAIL "C" REPLACED BY DETAIL "C-1"
 - ④ NEW ITEMS

TYPICAL DOWNSPOUTING (SINGLE BRIDGE DRAINS)
SCALE: 3/32" = 1'-0"

AS-BUILT REVISIONS			
SEE LEGEND			
<i>John J. Sanchez 042929</i>		7/8/93	
SIGNATURE		DATE	
DOWNSPOUTING DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
BRUCKNER EXPRESSWAY			
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS, NEW YORK, N.Y.			
DRAWING NO. DD-3	SCALE AS SHOWN	DATE 12/27/88	SHEET NO. 68R1

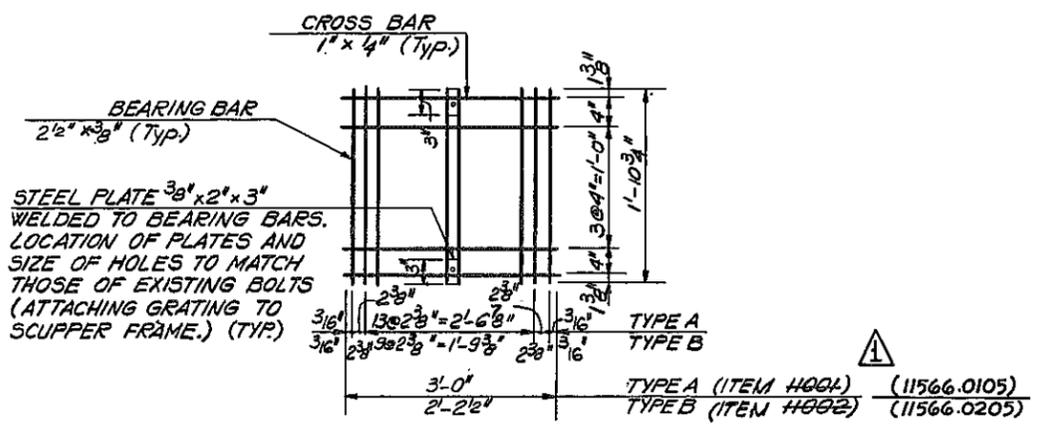
In Charge of
 Plans By
 Traced By
 Checked By

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (288)	69R1	90
I-278 OVER VARIOUS LOCATIONS				
PIN X729.99 BIN I-06666-9 BIN I-06666-4				



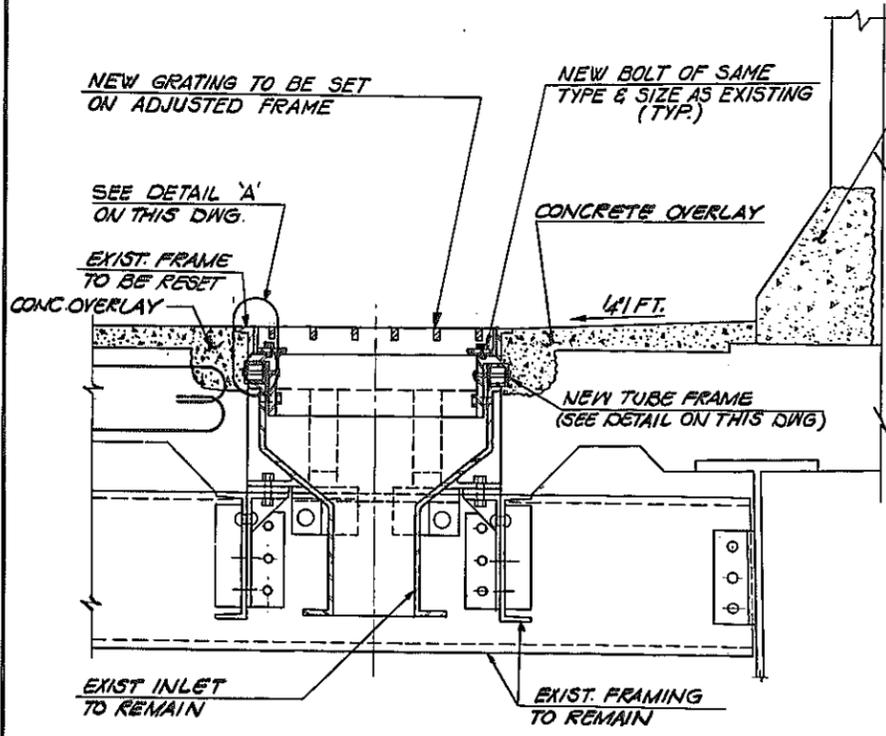
EXISTING BRIDGE DRAIN
SCALE 1/2" = 1'-0"

CONCRETE SAFETY WALK AND PART OF PARAPET TO BE REMOVED UNDER ITEM 580.01 FOR DETAILS. SEE DWG STD-1



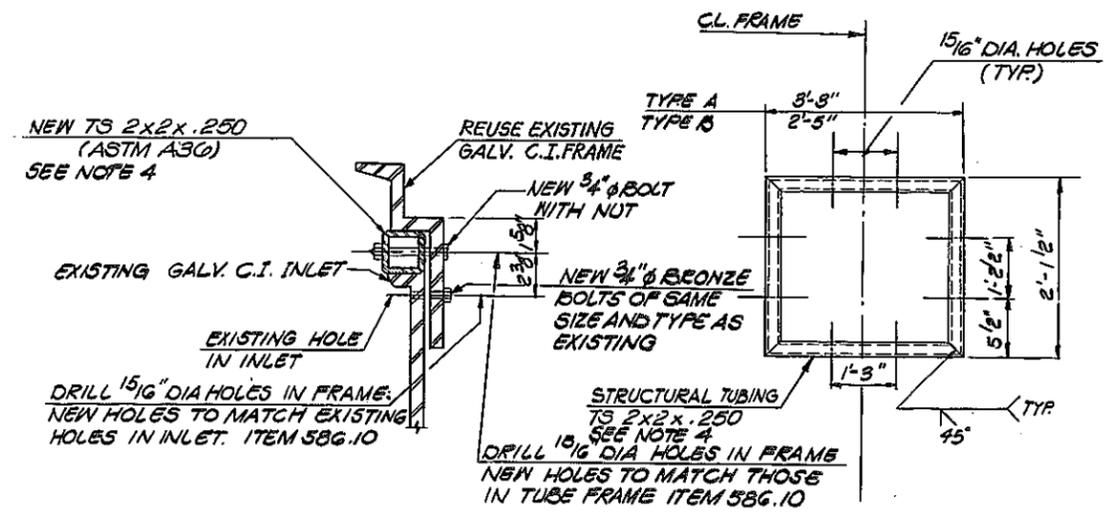
NEW GRATING
NOT TO SCALE

- NOTES:**
- FOR EXIST BRIDGE DRAIN LOCATIONS SEE DWG D-1, THRU D-3, GP-1, GP-5.
 - ALL BOLT LOCATIONS NECESSARY FOR THE ADJUSTMENT OF BRIDGE DRAINS SHALL BE VERIFIED IN THE FIELD.
 - COST OF NEW STRUCTURAL TUBING AND NEW BOLTS IS INCLUDED IN PRICE BID FOR THE FOLLOWING:
TYPE A DRAINS-ITEM 11566.91, VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES ; TYPE B DRAINS-ITEM 11566.92, VERTICAL ADJUSTMENT OF BRIDGE DRAINAGE DEVICES.
 - DETAIL SHOWN FOR 2" HIGH DENSITY CONCRETE OVERLAY. IF CONTRACTOR ELECTS TO USE 1 1/2" LATEX MODIFIED CONCRETE OVERLAY, HE SHALL PROVIDE A MODIFIED DETAIL FOR THE APPROVAL OF THE ENGINEER.
 - REPLACEMENT OF EXISTING GRATINGS SHALL BE DONE PRIOR TO SHIFTING THE TRAFFIC (STAGES I AND II)



ADJUSTED BRIDGE DRAIN - ITEM 15566.91 OR 15566.92
SCALE 1/2" = 1'-0"

MODIFIED CONCRETE PARAPET FOR DETAILS SEE DWG. STD-1



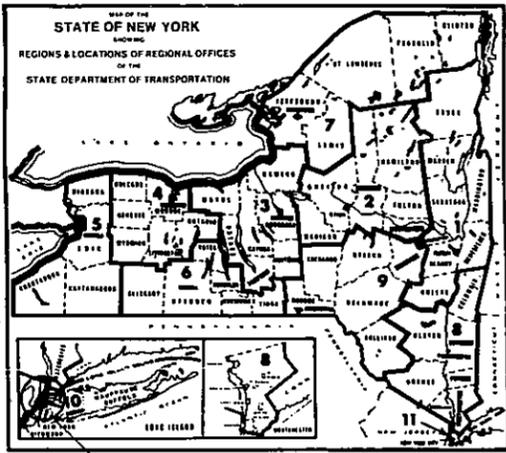
DETAIL 'A'
(GRATING NOT SHOWN)
SCALE 3" = 1'-0"

TUBE FRAME DETAIL
SCALE 1" = 1'-0"

AS-BUILT REVISIONS			
1	NEW ITEMS		
John J. Sanchez 043929		7/8/83	
SIGNATURE		DATE	
BRIDGE DRAIN DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION BRUCKNER EXPRESSWAY			
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS, NEW YORK, N.Y.			
DRAWING NO STD-2	SCALE AS NOTED	DATE 12/27/88	SHEET NO. 69 R1

In Charge of
Revised By
Traced By
Checked By

Appendix G – As-Built Records for Contract D254615



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

STANDARD SHEETS
604-6, 604-7, 604-5, 606-3R4, 606-8R1, 606-9R1,
606-10R1, 606-2C, 606-21, 606-25, 607-11, 619-3R3,
619-4R2, 644-3, 644-4, 644-5, 644-6, 644-7,
645-12, 645-13R1, 645-14R2, 655-8R5.
REGIONAL DESIGN STD: NYC REGION II DWG. D-3.
NYC REGION II DWG. D-4.

REHABILITATION OF ROUTE I-278 VIADUCT EAST OF TRIBORO BRIDGE
RECORD PLANS
IN NEW YORK CITY
BRONX COUNTY

"CHANGES MADE TO THESE PLANS AND RELATED CONTRACT DOCUMENTS SINCE COMPLETION BY THE CONSULTING ENGINEER MAY BE DETERMINED BY COMPARISON WITH SUCH PRELIMINARY PLANS AND RELATED DOCUMENTS FILED AT THE REGIONAL OFFICE OR THOSE FILED AT THE OFFICE OF THE CONSULTING ENGINEER."

SITE OF WORK

CONTRACT LOCATION

THIS CONTRACT CONSISTS OF FOUR BRIDGE STRUCTURES LOCATED IN THE COUNTY OF THE BRONX, CITY OF NEW YORK. ONE STRUCTURE CARRIES BRUCKNER EXPRESSWAY, I-278, OVER VARIOUS FEATURES (BIN I-06666-9). A SECOND STRUCTURE CARRIES THE SOUTHBOUND THROUGH RAMP (RAMP 'M' BIN I-06666-F) OF THE BRUCKNER EXPRESSWAY OVER HUNTS POINT AVENUE. A THIRD STRUCTURE CARRIES THE NORTHBOUND THROUGH RAMP (RAMP 'P' BIN I-06666-G) OF THE BRUCKNER EXPRESSWAY. THE FOURTH STRUCTURE CARRIES A NORTHBOUND ON RAMP (RAMP 'N' BIN I-06666-H) OF THE BRUCKNER EXPRESSWAY OVER FAILE STREET.

212 SHEETS

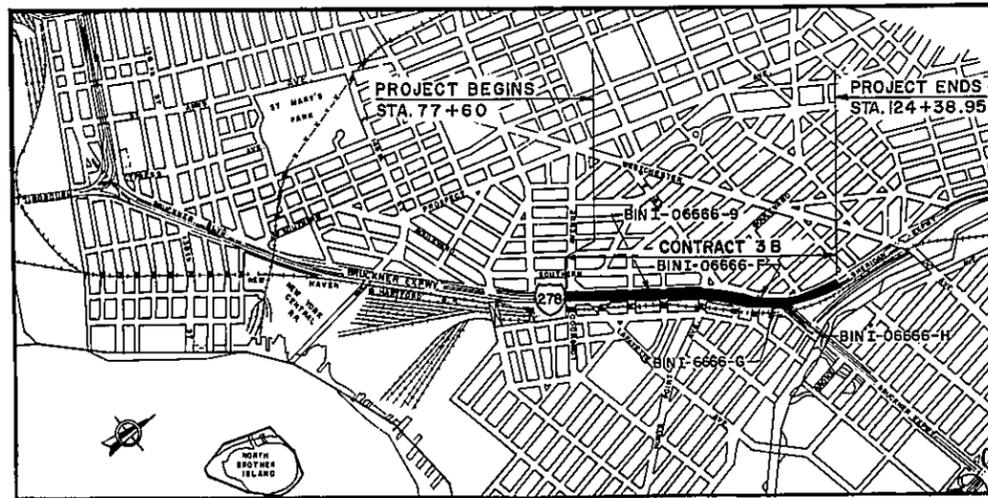
CONTRACT D254615

F.A. PROJECT 177-2781-303

NEW YORK CITY MAINTENANCE NOTE

ALL WORK DONE UNDER THIS CONTRACT, WHEN COMPLETED, WILL BE MAINTAINED BY THE CITY OF NEW YORK IN ACCORDANCE WITH THE HIGHWAY LAW BY ARTICLE 12, SECTION 340-B IF INTERSTATE, AND BY ARTICLE 12-B, SECTION 349-C IF ARTERIAL. ALL EXISTING SANITARY AND OTHER SEWERS NOT DEEMED TO BE PART OF THE PROJECT BY THE COMMISSIONER, WATERMANS, HYDRANTS AND OTHER MUNICIPALLY OR PRIVATELY OWNED FACILITIES WITHIN THE LIMITS OF THE R.O.W. WHICH REMAIN IN SERVICE UNCHANGED AND ALL SUCH FACILITIES RELOCATED OR PROTECTED AS PART OF THE WORK PERFORMED UNDER THE PROJECT WHETHER CROSSING, LOCATED WITHIN OR ADJACENT TO THE R.O.W. SHALL BE MAINTAINED AS THE CASE MAY BE BY THE MUNICIPALITY OR BY THE AGENCY OR UNIT HAVING CONTROL OR JURISDICTION THEREOF AT NO COST OR EXPENSE TO THE STATE. APPROVED PURSUANT TO THE PROVISIONS OF ARTICLE 12-B, SECTION 349-C, OF THE HIGHWAY LAW, BY THE MAYOR OF THE CITY OF NEW YORK.

FUND SOURCE	CORRESPONDING P.I.N.
177-2781-303	X730.28.311
100% STATE	X730.28.302



LOCATION PLAN

THE CONTRACT LIMITS ARE TO BE THE NORTHBOUND ENTRANCES FROM THE TRIBORO BRIDGE BRONX APPROACH AND MAJOR DEEGAN EXPRESSWAY IN THE VICINITY OF ST. ANN'S AVE. AND THE SOUTHBOUND APPROACHES FROM THE SHERIDAN EXPRESSWAY IN THE VICINITY OF JENNINGS STREET AND THE SOUTHBOUND BRUCKNER EXPRESSWAY ENTRANCE AT UNDERHILL AVENUE.

CONTRACTOR'S NAME	KISKA CONSTRUCTION
AWARD DATE	SEPTEMBER 9, 1993
COMPLETION DATE	DECEMBER 31, 1996
FINAL ACCEPTANCE DATE	DECEMBER 30, 1996
REGIONAL DIRECTOR	SUBI CHAKRABORTI
ENGINEER IN CHARGE	ALBERT WONG
FINAL COST TOTAL	\$ 38,295,208.58
FISCAL SHARE	COST(S)
FS 1	\$ 36,667,698.78
FS 2	\$ 1,625,396.80

DATE _____
CERTIFICATE NO. _____

APPROVED BY *[Signature]* DATE 1/20/93
LUCIUS J. ... P.E. DATE
COMMISSIONER
COORDINATOR OF ARTERIAL HIGHWAYS
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

PREPARED AND RECOMMENDED BY,
BLAUVELT ENGINEERS, P.C.
[Signature] DATE 1/15/93
ROBERT L. AVISON
N.Y.S. PE, L.I.C. NO. 064772
SENIOR VICE PRESIDENT

APPROVED BY *[Signature]* DATE 1/20/93
GEORGE A. KRAUSE, P.E. DATE
CHIEF ENGINEER
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

THE SERVICE LIFE OF THE CITY-OWNED UTILITIES TO BE REPLACED, AS SHOWN ON THE PLANS, HAS NOT BEEN EXTENDED.

APPROVED BY *[Signature]* DATE 1/19/93
HARRY KAMMIS, P.E. DATE
ASSISTANT COMMISSIONER
OFFICE OF CONSTRUCTION COORDINATION
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

I-278 BRUCKNER EXPRESSWAY AND RAMPS			
MONOLITHIC DECK INTERCHANGE			
REHABILITATION AT SHERIDAN INTERCHANGE			
CONTRACT 3B		B.I.N. I-06666-9 &	
I-06666-F, G & H			
COUNTY OF THE BRONX			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1 R/	199
FEDERAL AID PROJECT NO.	177-2781-303		
CAPITAL PROJECT IDENTIFICATION NO.	X730.28.311, .302		

INDEX ON SHEET NO. 2

IN CHARGE OF R. L. A. DESIGNED BY CHECKED BY D. K. ESTIMATED BY CHECKED BY DRAFTED BY CHECKED BY DATE

RECOMMENDED BY *[Signature]* DATE 1/14/93
T. ST. GERMAIN, P.E.
REGIONAL DESIGN ENGINEER
REGION II

RECOMMENDED BY *[Signature]* DATE 1-19-93
E. J. PETROU, P.E.
DIRECTOR OF CONSTRUCTION
REGION II

RECOMMENDED BY *[Signature]* DATE 1/19/93
J.M. MANZONILLO, P.E.
DIRECTOR OF OPERATIONS
REGION II

RECOMMENDED BY *[Signature]* DATE 1/13/93
I. DEITCH, P.E.
DIRECTOR OF STRUCTURES
REGION II

APPROVED BY *[Signature]* DATE 1-19-93
M. MICHAEL FRANCESE, P.E. DATE
REGIONAL DIRECTOR
REGION II

[Signature] DATE 1/14/93
F. LIN, P.E.
REGIONAL TRAFFIC ENGINEER
REGION II

[Signature] DATE
R. J. SCHMALZ, P.E.
REGIONAL CONSTRUCTION ENGINEER
REGION II

[Signature] DATE 1/15/93
for EDELSTEIN, P.E. DATE
REGIONAL MAINTENANCE ENGINEER
REGION II

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		381	199

I-278 BRUCKNER EXPRESSWAY AND RAMPS
 REHABILITATION AT SHERIDAN INTERCHANGE
 PIN X730.28 BIN I-06666-9
 BIN I-06666-F
 BIN I-06666-G
 BIN I-06666-H

DATE _____ CHECKED BY _____ DRAFTED BY _____ ESTIMATED BY _____ DESIGNED BY _____
 IN CHARGE OF _____

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	▲
202.20	REMOVING OLD BITUMINOUS CONC OVERLAY	SY	165	2239.04
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	1,393	1748.34
203.07	SELECT GRANULAR FILL	CY	554	18.86
203.19	CLEANING DRAINAGE STRUCTURES AND MANHOLES	EA	13	4.00
203.21	SELECT STRUCTURE FILL	CY	55	48.84
206.01	STRUCTURE EXCAVATION	CY	375	224.97
206.02	TRENCH AND CULVERT EXCAVATION	CY	425	82.41
17304.1011	SUBBASE COURSE, TYPE 1011	CY	623	703.15
10403.0903	SAW CUTTING ASPHALT CONCRETE	LF	254	14.10
403.13	ASPHALT CONCRETE-TYPE 3 BINDER COURSE	T	125	
18403.1316	HEAVY DUTY ASPHALT CONCRETE, TYPE 3HD	T	327	326.19
403.1701	ASPH CONC - TYPE 6F TOP COURSE (HIGH FRICT) MARSHALL DESIGN	T	105	437.20
18403.1716	HEAVY DUTY ASPHALT CONCRETE, TYPE 6F HD	T	484	1174.64
18403.2502	SAW & SEAL JTS IN BIT CONC OVERLAY	LF	700	0.00
18403.88	REPAIR DEFECTIVE AC OVERLAY & PCC & UNDERLYING PCC JOINTS	SY	33	941.26
407.0101	TACK COAT	GAL	244	158.34
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	317	0.00
490.40	MISCELLANEOUS COLD MILLING OF PORTLAND CEMENT CONCRETE	SY	300	43.75
502.04	CEMENT CONC PAVE REINFOR CL-C	CY	35	752.62
502.06	CEM CONC PAVE UNREINFOR CL-C	CY	145	
502.10	METAL REINF FOR CONC PAVEMENT (10 FT. WIDE OR GREATER)	SY	50	137.18
502.11	METAL REINF FOR CONC PVT. (LESS THAN 10 FT. WIDE)	SY	135	137.71
502.20	TRANS. JOINT SUPPORTS (ALL TYPES)	LF	1,500	1021.00
502.32	LONGITUDINAL JOINT TIES, (GROUT TYPE)	EA	845	0.00
10502.3410	LOAD TRANSFER DEVICE FOR CONCRETE PAVEMENT REPAIRS	EA	300	259.81
502.43	CONSTRUCTING AND SEALING SPECIAL JOINTS	LF	475	22543.84
15502.4511	CEM CONC PAVT PRESS RELIEF JTS	LF	172	0.00
10502.5506	SAW CUTTING PORTLAND CEMENT CONCRETE & COMPOSITE PAVEMENTS	LF	49,800	0.00
18502.6028	CEMENT CONCRETE FOR PAVEMENT REPAIRS	CY	32	0.00
18502.7601	SEALING CRACKS IN PCC PAVEMENT SILICONE SEALANT	LF	200	246.00
552.02	PERM STEEL SHEET PILING	SF	3,600	817.44
552.05	SAFETY OPERATION SHEET PILING (MIN. BID 80 CENTS)	SF	6,600	48500.00
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CY	1,044	10990.00
555.0403	CONC FOR STRS - CLASS E (STR SLAB-SEPARATE WEAR SURFACE)	SF	45,500	0.00
555.0404	CONC FOR STRS - CLASS E (STR APR SLAB - INT WEAR SURFACE)	SF	10,900	424980.00
16555.5505	PERM CONC TRAFF BARRIER FOR STRUCT(SAFETY SHAPE-HALF SECT)	LF	7,850	1305.51
16555.6603	TRANSV SAWCUT GROOVING OF STRUCT SLAB SURFACE	SF	424,000	406514.69
556.0201	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	LB	8,000	85396.92
556.0202	EPOXY-COATED BAR REINFORCE FOR STRUCTURES	LB	700,000	24483.46
556.03	STUD SHEAR CONNECTORS / BRIDGE	EA	19,500	35002.52
559.01	EPOXY PROTECTIVE COATING	SF	73,500	33188.77
564.510001	STRUCTURAL STEEL	LB	25,000	
564.510002	STRUCTURAL STEEL	LB	9,200	51467.28
564.510003	STRUCTURAL STEEL	LB	147,000	0.00
564.510004	STRUCTURAL STEEL	LB	57,320	84364.66
564.510005	STRUCTURAL STEEL	LB	16,910	2400.48
564.510006	STRUCTURAL STEEL	LB	62,900	
564.510007	STRUCTURAL STEEL	LB	2,520	1338.38
564.510008	STRUCTURAL STEEL	LB	300	

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	▲
565.2001	TYPE E.B. BEARING (10 TO 100 KIP)	EA	188	188.00
565.2002	TYPE E.B. BEARING (101 TO 150 KIP)	EA	156	156.00
565.2006	TYPE E.B. BEARING (301 TO 350 KIP)	EA	2	2.00
565.2011	TYPE E.B. BEARING (551 TO 600 KIP)	EA	2	2.00
565.2014	TYPE E.B. BEARING (801 TO 900 KIP)	EA	2	2.00
565.2015	TYPE E.B. BEARING (901 TO 1000 KIP)	EA	5	2.00
565.2016	TYPE E.B. BEARING (1001 TO 1100 KIP)	EA	2	14.00
565.2018	TYPE E.B. BEARING (1201 KIP AND OVER)	EA	14	314.00
15565.4302	BRIDGE BEARING RESTORATION	EA	315	344.00
11565.430201	BEARING REMOVAL (STRINGER BEARINGS)	EA	344	27.00
11565.430202	BEARING REMOVAL (STEEL BEAM PIER CAP BEARINGS)	EA	27	
11566.010501	REPLACEMENT OF SCUPPER FRAME AND GRATINGS - TYPE A	EA	60	55.00
11566.020501	REPLACEMENT OF SCUPPER FRAME AND GRATINGS - TYPE B	EA	56	61.00
11566.1303	CLEANING DRAINAGE SYSTEMS	EA	116	57.00
566.2001	DOWNSPOUT SYSTEM (DUCTILE IRON)	LF	2,750	3335.33
05566.25	REM & DISPOSE OF DOWNSPOUT SYS	LF	2,400	2999.56
16567.26	ARM JOINT SYST WITH PREFORMED ELASTIC STRIP SEAL	LF	61	370.24
567.33	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A3	LF	1,810	0.00
567.34	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A4	LF	290	4.00
567.35	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A5	LF	113	3.00
567.36	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A6	LF	190	3.00
567.37	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL, TYPE A7	LF	560	0.00
567.38	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL, TYPE A8	LF	1,000	0.00
18567.46	ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS	LF	61	113.41
15567.60	REMOVAL EXIST STEEL JT SYSTEMS	LF	1,800	1983.51
16567.64	REPLAC COMP SEAL FOR EXIST BRIDGE JOINTS	LF	282	295.90
11568.1299	STEEL BRIDGE RAILING (ONE RAIL)	LF	14,100	13084.41
18570.1291	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CY	900	53.91
18570.1502	CLASS A CONTAINMENT SYSTEM FOR PAINT REMOVAL	LS	NEC	100.00
18570.39	SHOP APPLIED STRUCT STEEL PAINT SYSTEM	LS	NEC	100.00
18570.8602	MAINTENANCE CLEANING & EPOXY PRIMING (SPRAY PROHIBITED)	LS	NEC	100.00
18570.8604	MAINT PAINTING EPOXY INTERMED COAT (SPRAY PROHIBITED)	LS	NEC	100.00
18570.8606	MAINT PAINTING URETHANE FINISH COAT (SPRAY PROHIBITED)	LS	NEC	100.00
579.01	STRUCT SLAB SCARIFICATION	SF	407,000	358914.04
579.02	REINF BAR EXPOSURE	SF	286,000	2824.41
580.01	REMOVAL OF STRUCTURAL CONCRETE	CY	2,864	25874.95
580.02	REMOVAL OF ST SUPPORT STRUCT SLAB (WITH SHEAR CONNECTORS)	SF	45,500	87.58
582.05	REM OF STRUCT CONC-REPL W/ CLASS A CONC	CY	70	
582.06	REM OF STRUCT CONC-REPL W/ CLASS D CONC	SF	7,300	6558.67
582.07	REM OF STRUCT CONC -REPL W/ VERT & OVERHD PATCH MATERIAL	SF	1,000	1258.00

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	▲
584.0102	HIGH DENSITY CONCRETE OVERLAY	SF	722,000	
584.1102	LATEX MODIFIED CONCRETE OVERLAY	SF	722,000	
584.1201	MICRO-SILICA CONCRETE OVERLAY	SF	722,000	819891.10
585.01	STRUCTURAL LIFTING OPERATIONS TYPE A	EA	277	277.00
585.02	STRUCTURAL LIFTING OPERATIONS TYPE B	EA	382	381.00
585.03	STRUCTURAL LIFTING OPERATIONS TYPE C	EA	2	2.00
585.04	STRUCT. LIFT. OPER. TYPE D	EA	2	2.00
585.05	STRUCT. LIFT. OPER. TYPE E	EA	9	9.00
585.06	STRUCT. LIFT. OPER. TYPE F	EA	9	9.00
585.07	STRUCT. LIFT. OPER. TYPE G	EA	3	3.00
585.08	STRUCT LIFT OPER TYPE H	EA	2	2.00
586.01	DRILL & GROUT BOLTS OR REINF BARS	LF	15,000	12147.00
586.10	FIELD DRILL HOLES IN EXISTING STRUCTURAL STEEL	EA	450	918.00
587.01	BR RAILING REMOVAL & DISPOSAL	LF	14,100	11028.00
589.0101	REMOVAL OF EXISTING STEEL	LB	870,000	555541.60
603.6203	REINFORCED CONCRETE PIPE, CLASS V, 18 INCH DIAMETER	LF	80	49.00
11604.020301	CATCH BASIN TYPE C-1	LF	20	0.50
11604.070103	ADJUSTMENT OF EXISTING MANHOLE TO GRADE	EA	10	9.00
11604.0725	REBUILDING TOP OF EXIST DRAIN STRUCTURE	EA	7	7.00
604.302192	RECT DRAINAGE STR TYPE U FOR PARALLEL BAR #12 PCB FRAME	LF	140	0.00
605.0901	UNDERDRAIN FILTER TYPE 1	CY	39	26.77
11606.3016	CONC MED BARRIER	LF	18	11.33
11606.3116	CONC MED BARRIER END SECT	LF	50	49.46
11606.3156	1/2 SECT CONC BARRIER	LF	1,900	1923.35
11606.3157	1/2 SECT CONC BARRIER END SECT	LF	80	65.83
606.32	HVY POST BLOCKED-OUT CORR BEAM GUIDE RAILING	LF	900	1227.83
15606.3202	TRANSITION CONCRETE BARRIER TO BOX BEAM GUIDE RAIL	LF	64	57.38
10606.3299	BACK UP POSTS FOR HALF SECTION CONCRETE BARRIER	EA	288	287.00
606.33	HVY POST BLOCKED-OUT CORR BEAM MEDIAN BARRIER	LF	75	125.25
606.36	HVY POST BLOCK-OUT CORR BEAM GD RAIL CONN TO WALL (TRL EN)	EA	2	2.00
606.50	RESET CORR BEAM GUIDE RAILING	LF	175	0.00
606.62	REMOVING & STORING CORRUGATED BEAM GUIDE RAILING	LF	385	316.00
606.72	REMOVING & DISPOSING CORRUGATE BEAM GUIDE RAILING	LF	1,144	1153.00
606.73	REMOVING & DISPOSING CORRUGATE BEAM MEDIAN BARRIER	LF	200	1391.00
606.8704	COR BEAM GUIDE RAIL TRANS ASSEM - CONC PARAPETS OR SAF SHAPES	LF	50	1391.00
10606.9987	HVY POST BLOCK-OUT CORR BEAM GD RAIL CONN TO WALL (APP END)	EA	1	1.00
11607.01	INST 4' GALV ST CLF ON CONC BARR W/TOP & BOT TENS WIRES	LF	820	841.35
11607.02	INST GALV ST POST FOR 4' HIGH FENCE ON CONC BARR	EA	105	105.00
11607.03	INST 6' HIGH GALV ST CLF W/TOP & BOT TENSION WIRES	LF	220	220.00
11607.04	INST GALV ST POST FOR 6 FT HIGH FENCE	EA	30	30.00
11607.21	REM & DISP CHAIN LINK FENCE	LF	880	330.00
11608.0102	CONC SIDEWALK W/ FOUNDATION (NYC)	SF	450	0.00
10608.3102	REM & RESET STONE OR CONC PAVT BLOCK	SF	8,333	1.00
609.0406	CONVENTIONALLY FORMED OR HACH FORMED CONC CURB TYPE AC	LF	261	103.39

* OPTIONAL ITEMS

AS - BUILT REVISIONS

1. Final Quantities

Carl Anderson 5-25-97
 SIGNATURE DATE

ESTIMATE OF QUANTITIES I

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
EQ-1	NONE	5-6-1993	11

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO	TOTAL SHEETS
1	N.Y.		47	199

I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE
PIN X730.28 BIN I-06666-9
BIN I-06666-F
BIN I-06666-G
BIN I-06666-H

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	△
619.01	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	10.00
619.02	CONSTRUCTION SIGNS	LS	NEC	10.00
619.0303	FLASHING ARROW BOARDS	LS	NEC	10.00
619.0413	TYPE III CONSTRUCTION BARR	LF	50	0.00
619.0502	LIGHTING FOR CONSTRUCTION BARRICADES	LF	50	0.00
10619.0599	LIGHTING FOR TEMP CONC BARRIER	LF	43,265	35510.00
619.1502	SHORT-TERM PAVEMENT MARKINGS	LF	250	0.00
619.17	TEMPORARY CONC BARRIER	LF	43,265	35340.00
15619.1905	WHITE REM REFLECT PVT STRIPES	LF	68,814	22457.22
15619.1906	YELLOW REM REFLECT PVT STRIPES	LF	52,696	16941.58
11619.229301	TRAFFIC ENFORCEMENT AGENTS	LS	NEC	10.00
15619.4003	TEMP GUIDE RAIL TERM IMP ATTN (3 BAY) (40 MPH OP SPEED)	EA	6	0.00
15619.6804	TEMP INERTIAL BARRIER MODULE (1400)	EA	18	0.00
11619.991601	TOW TRUCK SERVICE	HR	1,000	1250.00
18633.07	CLEAN & FILL JOINTS & CRACKS	LS	NEC	10.00
634.01	SURVEY AND STAKEOUT	LS	NEC	10.00
634.03	CONC. CYLINDER CURING BOX	EA	1	0.00
15634.0401	FURNISH MOBILE TELEPHONE EQUIP	MO	32	35.00
15634.040291	MESSAGE UNIT CHARGES FOR MOBILE TELEPHONE SERVICE	LS	NEC	25.99
14634.1002	PORTABLE VARIABLE MESSAGE DISPLAY UNITS	EA	4	0.00
637.0901	ENGINEERS OFFICE, TYPE E	MO	35	38.00
15637.31	MICROCOMPUTER SYSTEM	LS	NEC	10.00
644.0101	SINGLE CANTILEVER SIGN STRUCT	EA	2	0.00
644.0301	SINGLE SPAN SIGN STRUCTURE	EA	1	0.00
645.07	GUIDE SIGN - ALUMINUM	SF	213	0.00
645.14	OVERHEAD PANEL - ALUMINUM	SF	1,276	0.00
645.16	SECONDARY PANEL - ALUMINUM	SF	36	0.00
645.2052	TRAFFIC SIGN, 60 IN X 48 IN FURNISH & MOUNT PANEL ONLY	EA	4	0.00
645.258201	TRAF SIGN 18" WIDE RECTANGLE FOR & MNT PANEL ONLY	EA	1	0.00
11645.2599	STREET NAME SIGN 36"x9" (NYC)	EA	3	0.00
647.03	REMOVAL OF SIGNS SIZE D (41-100 SF)	EA	1	0.00
647.10	RELOCATING SIGNS SIZE A (0 TO 10 SF)	EA	6	0.00
647.11	RELOCATING SIGNS SIZE B (11 TO 20 SF)	EA	2	0.00
647.14	RELOCATING SIGNS SIZE E (OVER 100 SF)	EA	1	0.00
647.16	REMOVAL OF SIGNS-SIZE E (OVER 100 SF)	EA	3	0.00
10647.99	REMOVAL OF CANTILEVER SIGN STRUCTURE	EA	2	0.00
10654.0105	REM & STR INERTIAL BARRIER MODULES	EA	1	0.00
10654.0501	REM STR LIQUID FILLED CELL ATTENUATOR UNITS	EA	1	0.00
11654.1701	GU. RAIL TERM. IMP. ATTENUAT. L LOC. A	EA	1	0.00
15654.25	LIQUID FILLED CELL CLUSTER ATTENUATOR	EA	2	0.00
11654.51	REM STR & RESET LIQ FILLED CELL SHDWCH ATTENUATOR	EA	1	0.00
655.01	FRAMES AND GRATES (CASTINGS)	SF	120	0.00
655.03	FRAMES & GRATES (PARALLEL BAR TYPE)	SF	420	0.00
656.01	MISCELLANEOUS METALS	LB	300	0.00

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	△
11660.0502	FLEXIBLE BRONZE HOSE (B G&E) - 3/4 IN DIAH	LF	25	144.00
11660.0503	FLEXIBLE BRONZE HOSE (B G&E) - 1 IN DIAH	LF	115	60.00
11660.0505	FLEXIBLE BRONZE HOSE (B G&E) - 1-1/2 IN DIAH	LF	100	72.00
11660.0506	FLEXIBLE BRONZE HOSE (B G&E) - 2 IN DIAH	LF	15	33.00
11660.0508	FLEXIBLE BRONZE HOSE (B G&E) - 3 IN DIAH	LF	40	30.00
11660.0908	CONC ROADWAY BOX TYPE 2418 (BUR GAS & ELECT)	EA	3	6.00
11660.1006	CAST IRON JUNCT BOX, SURE MNTD 8 IN X 8 IN X 6 IN (B G&E)	EA	42	48.00
11660.1014	CAST IRON JUNCT BK SURF MOUNT 18 IN X 12 X 10 IN (BUR G&E)	EA	65	62.00
11660.1102	CAST IRON JUNCT BOX, FLUSH MNTD SIZE 2 (B G&E)	EA	73	74.00
11661.0302	INSULATED CONDUCTOR, NO. 12 (BG&E)	LF	198	160.00
11661.0305	INSULATED CONDUCTOR, NO. 6 (BG&E)	LF	8,602	5721.00
11661.0307	INSULATED CONDUCTOR, NO. 2 (BG&E)	LF	54,910	39824.00
11661.0309	INSULATED CONDUCTOR, NO. 2/0 (BG&E)	LF	105	680.00
11661.250402	CONT CAB, 6 RELAY SURF MNT 30X 36X12" AND ELECT EQUIP (BG&E)	EA	1	0.00
10670.0197	REMOVE FOUNDATION FOR LAMPPOST	EA	4	5.00
10670.0305	REMOVE & STORE LAMPPOST ASHBLV	EA	64	60.00
11670.112505	ALUM LMPST CONS OF 25'-0" SHFT 48'-0" BRKT ARM W/O TRANS BASE	EA	19	18.00
11670.112507	ALUM LMPST CONS OF 25'-0" SHFT 42'-0" BRKT ARM W/O TRANS BS	EA	55	56.00
11670.112511	ALUM LMPST CONS OF 25'-0" SHFT 48'-0" TWIN ARM W/O TRANS BASE	EA	4	5.00
670.2003	2 INCH GALV. STEEL CONDUIT	LF	723	1614.67
670.2005	4 INCH GALV. STEEL CONDUIT	LF	20	9.00
11670.2013	COND HOT-DIP GALV ST PI INSTAL ON STRUCT BGE 3/4 IN DIA	LF	1,361	1051.00
11670.201401	COND. HOT-DIP. GALV ST PI INSTL ON STRUCT BGE 1 IN DIA	LF	919	1196.00
11670.201601	CONDUIT HOT-DIP GALV ST PIPE INS ON STRUCT (BG&E) 1-1/2" D	LF	3,111	3380.83
11670.2017	COND HOT-DIP GALV ST PI INSTAL ON STRUCT BGE 2 IN DIA	LF	6,854	7653.00
11670.201801	CONDUIT HOT-DIP GALV ST PIPE INS ON STRUCT (BG&E) 3" DIA	LF	245	490.00
11670.202001	CONDUIT HOT-DIP GALV ST PIPE INS ON STRUCT 4" DIA (BG&E)	LF	10	0.00
670.240150	FLEXIBLE CONDUIT 1 1/2 IN DIA	LF	325	12.00
670.2402	FLEXIBLE CONDUIT 2 IN DIAH	LF	50	3.00
11670.5101	150 W HI PRESS SOD VAPOR LAMP & LUM (BUR OF G & E)	EA	82	84.00
11670.540202	HI PRESS SOD UNDERDECK LUMIN W/BUILT IN BALLAST 100W	EA	12	12.00
11670.540203	HI PRESS SOD UNDERDECK LUMIN W/BUILT IN BALLAST 250 W	EA	36	36.00
11670.60	PHOTOELECTRIC CONTROL UNIT (BUR OF GAS & ELECTRICITY)	EA	14	3.00
18685.0901	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES (20 MILS)	LF	97,356	9693.24
18685.0902	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES (20 MILS)	LF	20,986	20127.50
698.02	FUEL PRICE ADJUSTMENT	LS	NEC	0.00
699.04	MOBILIZATION	LS	NEC	100.00
40403.13	A-Asphalt Concrete type -3 Binder Course	T		183.88
40403.1701	A-Asphalt Course type 6F Top Course (High Frict.)	T		426.02
40403.1730	A-Asphalt Concrete type 6F	T		1403.14
40502.04	A- Cement Conc. Pavo Reinl. CL-C	CY		182.41
40555.5505	A-Permanent Cast In Place Conc. Barrier	LF		7715.24
40564.510005	A- Structural Steel	LB		17507.52
40567.33	Armored Joint System With Compression Seal type A3	LF		1901.03
40567.34	Armored Joint System With Compression Seal type A4	LF		288.41
40567.35	Armored Joint System with Compression Seal type A5	LF		110.41
40567.36	Armored Joint System with Compression Seal type A6	LF		249.56
40567.37	Armored Joint System with Compression Seal type A7	LF		565.19
40567.38	Armored Joint System with Compression Seal type A8	LF		982.80
40582.05	Rem. of Struct. Repl. with CL-A Concrete	CY		4.19
40582.07	Rem of Struct. Conc.-Repl. with Vert. & Dvertd Patch Mater.	SF		2876.74

ESTIMATE OF QUANTITY			
ITEM NUMBER	DESCRIPTION	UNIT	FINAL QUANTITY
40819.15	Pavement Delineation	LF	6042.00
40819.228301	Traffic Enforcement Agents	LS	0.00
40819.229302	Traffic Enforcement Agents Tow Truck Service	LS	100.00
40819.991601		HR	6026.00
40633.0202	Cleaning Existing Pavement and Shoulders	SY	13924.99
40660.090801	Remove and Dispose of Rdwy Box Type 2418	EA	1.00
40661.0303	Insulated Conductor No. 10	LF	5438.00
40661.2411	Remove Lamppost Assembly	EA	1.00
40661.3406	Foundation for Alum. Lamppost with Transformer Base	EA	1.00
40670.200201	1-1/2 Inch Galv Steel Conduit	LF	22.25
950.01	Scupper Flange Attachment and Hanger for Downspout Pipe	EA	116.00
950.02	Reinforcing Bar Repair	LS	66.82
950.04	Structural Concrete Removal and Full Deck Repair	LS	26.38
950.06	Revised Drainage Work	LS	29.92
950.08	Southbound Bruckner Expresswy Ramp "Y" Modification	LS	71.35
950.10	Protective Sealing of Struct. Conc. for New Bldg.	LS	75.63
950.12	Remove, Dispose and Install New Liquid Filled Cell Attn.	LS	80.10
950.14	Remove and Install Frame & Cover	EA	6.00
950.16	Install Armored Joint Segment	LS	100.00
950.18	Reinforcing Bar Repairs	LB	27900.25
950.20	Repaint Structure	LS	100.00
950.21	Masonry Wall with Roll Up Door and Chain Link Fence Drilling & Installing Mechanical Anchor Bolts	LS	100.00
950.22		EA	428.00

AS - BUILT REVISIONS

1. Additional Items
2. Final Quantities

Ed. Ruderman 3-25-97
SIGNATURE DATE

ESTIMATE OF QUANTITIES II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. EQ-2	SCALE NONE	DATE 5-6-1993	REGION II
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DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY

IN CHARGE OF R. L. A. DESIGNED BY H. L. L. CHECKED BY B. A. A. ESTIMATED BY H. L. L. CHECKED BY B. A. A. DRAFTED BY F. C. G. CHECKED BY M. P. DATE 10-10-94

FIELD CHANGE SHEET

D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		8F11	199
1-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	
			BIN 1-06666-F	
			BIN 1-06666-G	
			BIN 1-06666-H	

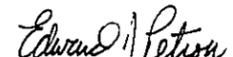
CHANGE IN BID QUANTITIES FOR FIELD CHANGE SHEETS
 NOS. 8F1, 123F1, 124F1, 125F1, 126F1, 127F1,
 128F1, 129F1, 130F1, 131F1, 132F1, 133F1, 133 F2

GENERAL NOTES

1. THIS DRAWING SUPPLEMENTS CONTRACT DRAWING 3B.
2. ALL WORK SHOWN ON FIELD CHANGE SHEET DRAWING SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES AND REFERENCES IN 130F1, 131F1, 132F1, 133F1 AND 133 F2.

THIS SIGNATURE IS FOR THE APPROVAL OF THE FOLLOWING SHEETS:

SHEET NOS.: 8F1, 123F1, 124F1, 125F1, 126F1, 127F1, 128F1, 129F1, 130F1, 131F1, 132F1, 133F1, 133 F2.


 EDWARD J. PETROU, P.E. 10/13/94
 DATE
 DIRECTOR OF CONSTRUCTION REGION 11

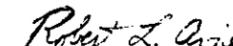
SPECIFICATION ITEM	DESCRIPTION	QUANTITY CHANGE
(1) 604.501102	SPECIAL DRAINAGE STRUCTURES	+ 194.0 L.F.
(2) 556.2001	12" DUCTILE IRON PIPE (SUB-SURFACE PIPE)	+ 945.0 L.F.
655.01	FRAMES & GRATINGS (CASTINGS)	+ 177.0 S.F.
206.01	STRUCTURE EXCAVATION (CB & M.H.)	+ 122.0 C.Y.
206.02	TRENCH AND CULVERT EXCAVATION	+ 536.0 C.Y.
17304.1011	SUB-BASE COURSE TYPE 1011	+ 88.0 C.Y.
(3) 11623.12	CRUSHED STONE (IN PLACE MEASURE) BEDDING FOR SEWERS N.Y.C DEPT. OF ENVIRONMENTAL PROTECTION	+ 104.0 C.Y.
203.07	SELECT GRANULAR FILL	+ 6.0 C.Y.
10608.3102	REMOVE AND RESET STONE OR CONC. PAV'T. BLOCK	+ 743.0 S.F.
403.1701	ASPH. CONC. TYPE 6F TOP COURSE (HIGH FRICT.) MARSHALL DESIGN.	- 46.0 TONS.
552.05	TEMPORARY/SAFE OPERATION SHEET PILING.	+ 7970.0 S.F.
10502.5506	SAW CUTTING PORTLAND CEMENT CONC. & COMPOSITE PAVEMENTS	- 74.0 L.F.
566.2001	DOWN SPOUT PIPING	- 257.0 L.F.
502.06	CEMENT CONC. PAVE UNREINFORCED CL-C	- 127.0 C.Y.

SUMMARY OF QUANTITIES FOR FIELD CHANGE SHEETS

ITEM	ITEM DESCRIPTION	UNIT	QUANTITY
604.501102	SPECIAL DRAINAGE STRUCTURES	L.F.	324.0
556.2001	12" DUCTILE IRON PIPE (SUB-SURFACE PIPE)	L.F.	1080
655.01	FRAME & GRATE CASTINGS	S.F.	597.0
206.01	STRUCTURE EXCAVATION	C.Y.	450.0
206.02	TRENCH EXCAVATION	C.Y.	603.0
17304.1011	SUB-BASE COURSE. TYPE 1011	C.Y.	120.0
11623.12	PIPE BEDDING	C.Y.	104.0
203.07	SELECT GRANULAR FILL	C.Y.	293.0
10608.3102	REMOV. & RESET STONE DR CONC. PAV'T. BLOCK	S.F.	2589
403.1701	ASPH. CONC-TYPE 6F TOP COURSE (HIGH FRICT.) MARSHALL DESIGN	TON.	9.0
552.05	TEMP/SAFE OPERATION SHEET PILING	S.F.	14570.0
10502.5506	SAW CUTTING PORTLAND CEMENT CONC. & COMPOSITE PAVEMENTS	L.F.	626.0
566.2001	DOWN SPOUT PIPING	L.F.	2493.0
502.06	CEMENT CONC. PAVEMENT UNREINFORCED	C.Y.	18.0

- (1) THIS IS A NEW ITEM (604.501102) WHICH COVERS TYPE 2 AND TYPE 3 CATCH BASINS, ALSO TYPE A-1 AND A-3 MANHOLES. IT IS A N.Y.C. STANDARD DETAIL SHOWN ON SHEET NOS. 133F1 & 133 F2 WHICH REPLACES ALL RECTANGULAR DRAINAGE STRUCTURE (ITEM 604.302192) IN THE ORIGINAL QUANTITIES.
- (2) THIS IS A NEW ITEM (655.01) TO MEET N.Y.C. STANDARD FOR ITEM 604.50112. IT REPLACES ITEM 655.03 IN THE ORIGINAL QUANTITIES. REFER TO SHEET NOS. 133F1 AND 133 F2.
- (3) THIS IS A NEW ITEM (11623.12) WHICH REPLACES PART OF SELECT GRANULAR FILL (203.07) IN THE ORIGINAL QUANTITIES.

FIELD SHEETS PREPARED BY
BLAUVELT ENGINEERS, P.C.
 ONE PARK AVE., NEW YORK, N.Y. 10016


 ROBERT L. AVISON, P.E.
 N.Y.P.E. 064772

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
 Approved 3/13 1995

 PAUL T. WELLS Acting in his capacity as
 Deputy Chief Engineer (Construction)

AS-BUILT REVISIONS

1. Field change sheet quantities were not used

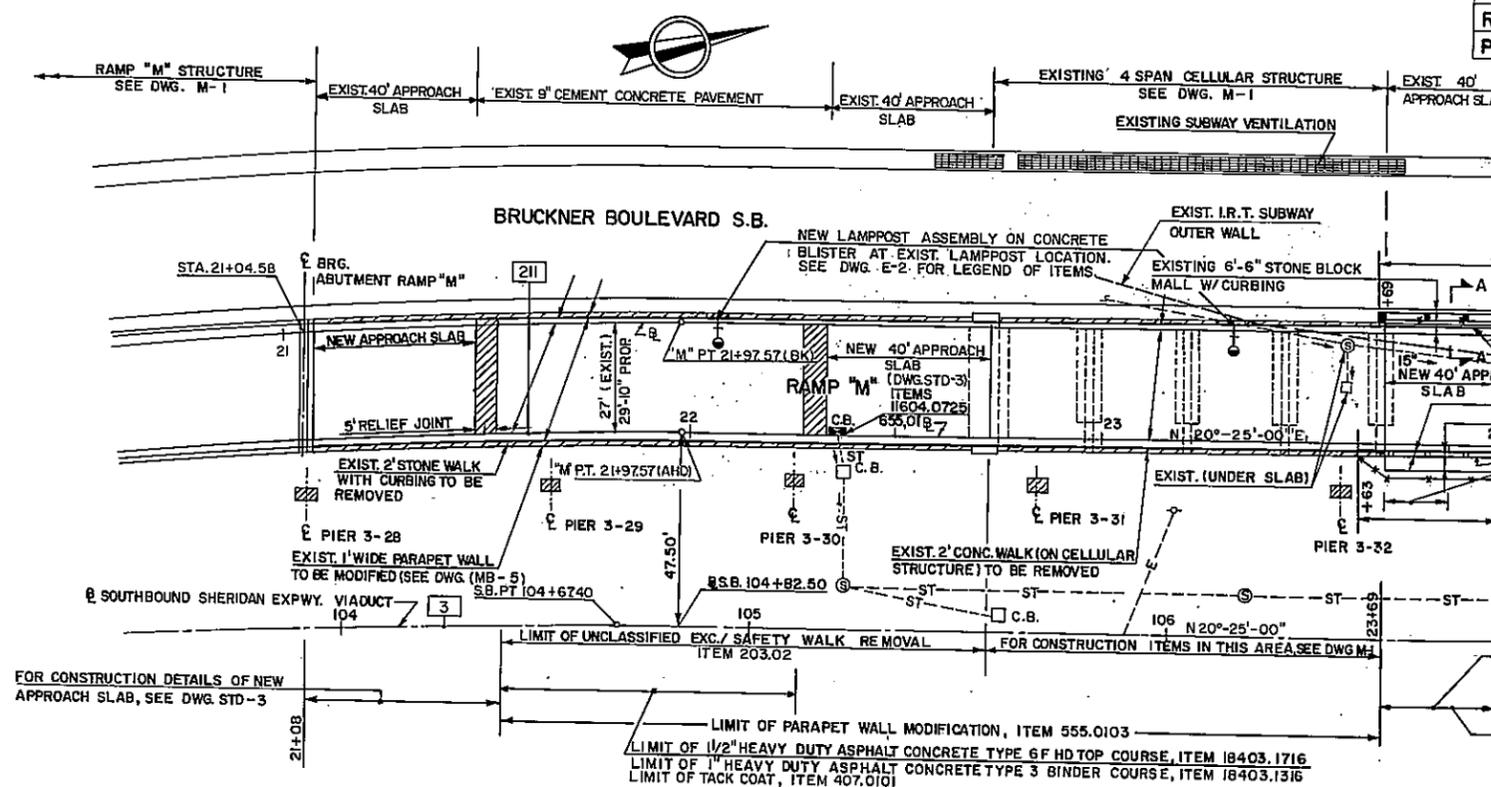

 SIGNATURE 2-24-97
 DATE

SUMMARY OF QUANTITIES AND GENERAL NOTES

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

DRAWING NO. S0-1	SCALE NONE	DATE 10-10-94	REGION 11
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FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		56	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28		BIN I-06666-9		



- BEGIN HEAVY POST BLOCKED-OUT CORR. BEAM GUIDE RAILING (WEST SIDE), ITEM 606.32
- BEGIN REMOVAL AND DISPOSAL OF EXIST. 6" HIGH ALUMINUM C.L. FENCE, ITEM 11607.21
- BEGIN REMOVE AND RESET STONE PAVEMENT BLOCKS AS REQUIRED
- EXISTING 30' SLOPING CONC. WALL TO BE REMOVED, ITEM 580.01
- PROPOSED REINFORCED CONC. PARAPET (23+69 TO 23+99) ITEMS 555.0103, 556.0202
- PROPOSED HALF SECTION CONC. BARRIER
- EXISTING 6' STONE BLOCK AREA
- PROPOSED 15' HALF SECT CONC. BARRIER TRANSITION FROM PARAPET MODIF. SECTION TO HALF SECTION BARRIER SHAPE.
- BEGIN REMOVAL OF EXIST. HEAVY POST BLOCKED-OUT CORRUGATED BEAM GUIDE RAILING, ITEM 606.72
- BEGIN REMOVAL AND DISPOSAL OF EXIST. 6" HIGH ALUMINUM C.L. FENCE W/TOP WIRE, ITEM 11607.21.
- LIMIT OF HALF-SECTION CONCRETE BARRIER TREATMENT W/BACK-UP POSTS AND CONTINUITY PLATES, ITEMS 11606.3156 B 10606.3299.
- LIMIT OF 6' HIGH GALV. STL. C.L. FENCE AND POSTS (EAST SIDE) ITEMS 11607.03 & 11607.04
- LIMIT OF 4' HIGH GALV. STL. C.L. FENCE AND POSTS ATOP THE HALF-SECTION CONCRETE BARRIER (WEST SIDE) ITEMS 11607.01 & 11607.02.

CURVE NO.	CURVE DATA	CURVE NO.	CURVE DATA
15	R = 1500.00' Δ = 6°05'-26.6" T = 66.68' L = 133.275'	211	R = 1522.77' Δ = 3°29'-55.8" T = 46.51' L = 92.99'
127	R = 3000.00' Δ = 4°53'-31.1" T = 128.15' L = 256.14'	134	R = 3000.00' Δ = 3°14'-10.0" T = 84.74' L = 169.44'
128	R = 250.00' Δ = 40°51'-26.2" T = 93.31' L = 178.64'	135	R = 250.00' Δ = 33°41'-53.0" T = 75.71' L = 147.04'
130	R = 150.00' Δ = 12°33'-43.6" T = 16.51' L = 32.89'	136	R = 150.00' Δ = 12°35'-00.2" T = 16.54' L = 32.94'
131	R = 280.51' Δ = 16°29'-15.1" T = 40.64' L = 80.72'	137	R = 280.00' Δ = 9°16'-59.3" T = 22.73' L = 45.37'
132	R = 150.00' Δ = 12°18'-28.9" T = 16.17' L = 32.22'	138	R = 150.00' Δ = 12°19'-51.0" T = 16.20' L = 32.28'

LEGEND		
DESCRIPTION	EXISTING	PROPOSED *
CATCH BASIN	□	■ C.B.
CURVE IDENTIFICATION	[21]	[21]
COLUMN OF ELEVATED STRUCTURE	▨	
ELECTRIC (UNDERGROUND)	---E---	
PARAPET WALL OR CONCRETE BARRIER	▬▬▬	▬▬▬ (EXIST. W/MODIFICATIONS)
PARAPET WALL	▬▬▬	
LAMPPOST	○	○
GUIDE RAIL	▬▬▬	
FENCE	---X---	
MANHOLES: STORM	○	○ S
ELECTRIC	○	○ E
TELEPHONE	---T---	
CATCH BASIN	□	■ C.B. (NEW)
FIRE COMMUNICATIONS	---F---	
STORM SEWER	---ST---	---ST---
UNDERGROUND CONDUIT	---	
LIGHTING	---	
TRAFFIC SIGNALS	---TS---	
WATER	---W---	

- * C.B. PROPOSED C.B.: REBUILD TOP, NEW FRAME AND GRATE
- S PROPOSED STORM M/H: ADJUST TO GRADE, NEW FRAME AND COVER
- E PROPOSED ELECTRIC M/H: ADJUST TO GRADE NEW FRAME AND COVER

- NOTES**
- FOR SECTION A-A, SEE DWG. NO. RD-1.
 - FOR EXIST. UTILITIES ON BRUCKNER BLVD. AND RAMPS 'M' AND 'P' SEE ALSO DWG. NOS. DP-1 TO DP-4, CG-1, CG-2, AND LIGHTING PLANS
 - CONSTRUCTION OF ITEMS 11604.0725, 11604.070103, 655.01 TO BE IN ACCORDANCE WITH "CITY OF NEW YORK, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SEWER DESIGN STANDARDS" BOOK, PAGES 20, 25, 27, 28 AND APPLICABLE MANHOLE STANDARDS A.O.B.E.

- PAVEMENT REPAIR NOTES:**
- PAVEMENT REPAIR LOCATIONS AND TYPES WILL BE DETERMINED BY THE ENGINEER.
 - PAVEMENT REPAIR DETAILS ARE SHOWN ON DRAWINGS PD-1 TO PD-4.

CONSTRUCTION LIMITATION NOTE FOR RAMPS 'M' & 'P'
SEE DWG. MPT-7

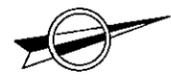
AS - BUILT REVISIONS	
SIGNATURE	DATE
ROADWAY PLAN I	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
DRAWING NO. RP-1	SCALE 1" = 20'
DATE 12-29-92	REGION II

DRAFTED BY: J.D. CHECKED BY: J.D. ESTIMATED BY: J.D. CHECKED BY: D.C. DESIGNED BY: R.L.A.

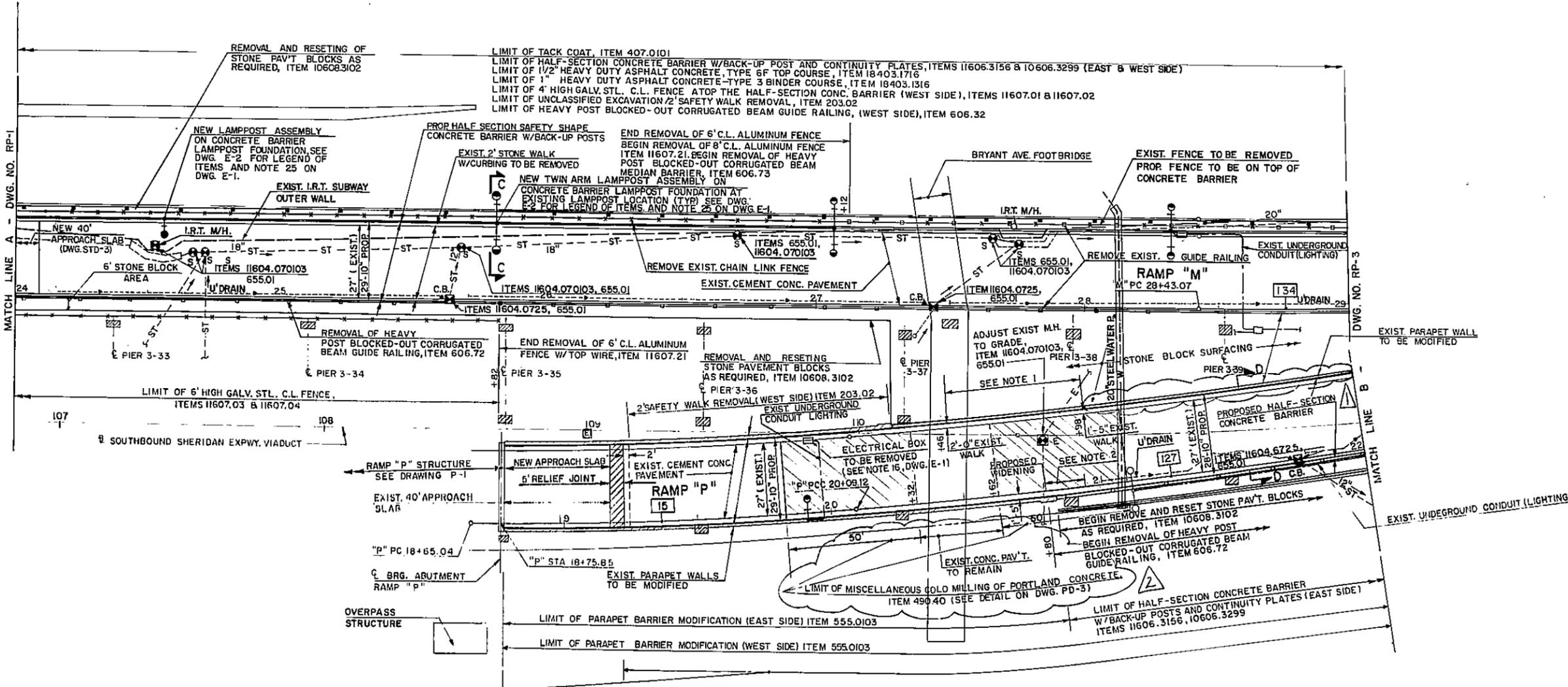
MC 47-20 (5/08)

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NY		57R1	199

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE**
PIN X730.28 BIN I-06666-9
BIN I-06666-F
BIN I-06666-G
BIN I-06666-H



DATE _____
 CHECKED BY D. K.
 DRAFTED BY N. H.
 J. D.
 CHECKED BY A. P.
 ESTIMATED BY
 CHECKED BY D. C.
 DESIGNED BY R. L. A.
 IN CHARGE OF



NOTES:

1. THE PROPOSED PARAPET MODIFICATION, IN THIS AREA FOLLOWS THE EXIST PARAPET SAFETY WALK TAPER.
2. THE PROPOSED ROADWAY WIDENING, IN THIS AREA, CHANGES FROM 1'-5" TO 12" AT 15:1 TAPER. (SEE DWG. NO. MB-7).
3. FOR SECTION C-C, RAMP "M" TYPICAL SECTION, SEE DWG. NO. TS-6. FOR SECTION D-D, RAMP "P" TYPICAL SECTION, SEE DWG. NO. TS-5.
4. FOR LAMPPOST ASSEMBLIES, SEE LIGHTING PLANS.
5. FOR PAVEMENT REPAIRS AT CATCH BASINS AND MANHOLES SEE DWG. PD-3.
6. FOR PAVEMENT TRANSITION AT BRYANT AVE UNDERPASS, SEE DWG. PD-3.
7. ITEM 11604.070103, ALL EXIST. SEWER MANHOLE ADJUSTMENTS ARE ALSO COVERED UNDER THIS ITEM. REFER TO SHT. NO. 56 & 58.
8. SEE NOTES 2 AND 3, DWG. RP-1.

AS - BUILT REVISIONS

1. NEW HALF SECTION BARRIER AND BACKUP POSTS
2. WORK DELETED FROM CONTRACT

Kevin L. ... 4-25-97
SIGNATURE DATE

ROADWAY PLAN II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. RP-2	SCALE 1" = 20'	DATE 4-6-93	REGION II
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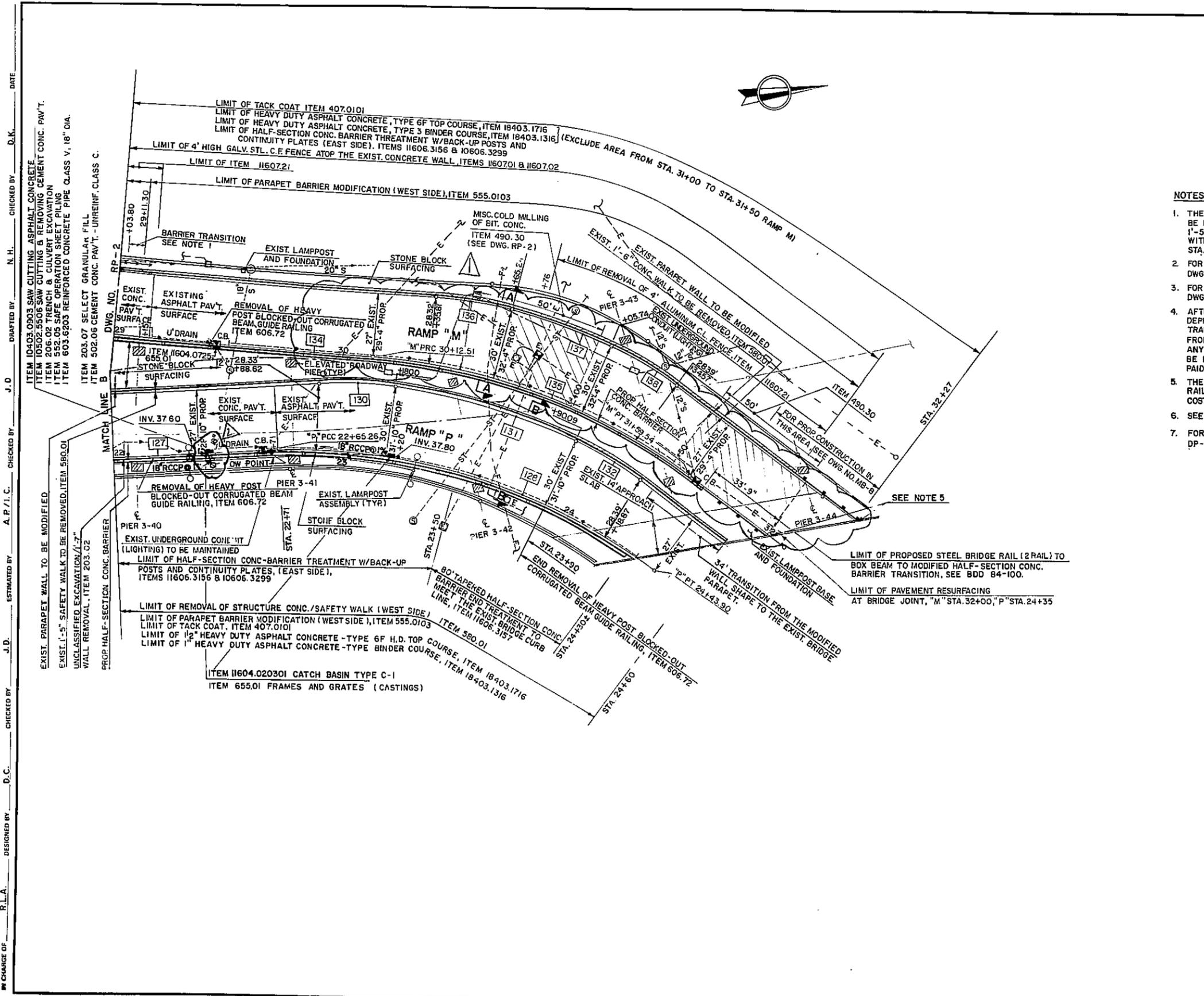
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		58R1	199

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE**
PIN X730.28 BIN I-06666-9

BIN I-06666-F
BIN I-06666-G
BIN I-06666-H

NOTES:

1. THE PROPOSED HALF-SECTION CONCRETE BARRIER WALL SHALL BE PLACED AT AN OFFSET FROM THE EXISTING CURB LINE OF 1'-5" AT STA. 29+03.80 AND AT 0'-4" AT STA. 29+11.30 TO MATCH WITH EXISTING LOCATION OF MODIFIED PARAPET WALL AT STA. 29+11.30. (DWG. NO. MB-6).
2. FOR SECTION A-A OF RAMP 'M', SEE TYPICAL SECTIONS ON DWG. TS-6.
3. FOR SECTION B-B OF RAMP 'P', SEE TYPICAL SECTIONS ON DWG. TS-5.
4. AFTER ASPHALT CONCRETE MATERIAL IS PLACED IN PAVEMENT DEPRESSIONS (ITEM 403.21), THE AREA SHALL BE EXPOSED TO TRAFFIC AND ANY OCCURRED RAVELING SHALL BE REMOVED FROM THE PAVEMENT A.O.B.E. ANY VOIDS CREATED BY THE EXPOSURE TO TRAFFIC SHALL BE FILLED WITH ASPHALT CONCRETE, TYPE GF AND SHALL BE PAID FOR BY ITEM 403.1701.
5. THE CONTRACTOR SHALL REPAIR EXISTING BRIDGE BOX BEAM RAIL AT TIEING POINT WITH PROPOSED IF REQUIRED, A.O.B.E. COST TO BE INCLUDED IN ITEM 15606.3202.
6. SEE NOTES 2 AND 3, DWG RP-1.
7. FOR EXIST. UTILITIES SEE ALSO DWGS CG-1, CG-2 AND DP-1 TO DP-4.



AS - BUILT REVISIONS

1. New Concrete Base From Sta 30+00 to Sta 32+00
2. Drainage Structure and Ductile Pipe Deleted From Contract

 3-26-97
 SIGNATURE DATE

ROADWAY PLAN III

**STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION**

DRAWING NO. RP-3	SCALE 1" = 20'	DATE 12-29-92	REGION 11
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DATE _____ CHECKED BY _____ N. H. _____ J. D. _____ A. P. I. C. _____ J. D. _____ D. C. _____ R. L. A. _____
 DESIGNED BY _____ CHECKED BY _____ ESTIMATED BY _____ CHECKED BY _____ DRAWN BY _____ CHECKED BY _____

D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		123 F1	199

**I-278 BRUCKNER EXPRESSWAY AND RAMP
REHABILITATION AT SHERIDAN INTERCHANGE**
PIN X730.28 BIN I-06666-9

BIN I-06666-F
BIN I-06666-G
BIN I-06666-H

SEE SHEET DP-1 FOR APPROVAL
SIGNATURE.

NOTES

- FOR DOWNSPOUT LAYOUT AND DETAILS SEE DWGS. DP-5 THRU DP-11.
- FOR BRIDGE DRAIN ADJUSTMENT AND NEW GRATING DETAILS, SEE DWG. DP-12.
- REPLACEMENT OF EXISTING GRATING SHALL BE DONE PRIOR TO SHIFTING THE TRAFFIC.
- LOCATION AND SIZES OF EXISTING SEWERS AND TYPE OF INLETS SHOWN ARE BASED ON "AS BUILT" DRAWINGS (CONTRACT FIVE 60-1), AVAILABLE AT REQUEST FROM THE NYS DOT.
- REMOVAL AND DISPOSAL OF EXISTING INTERCEPTING INLETS OR CATCH BASINS WHERE INDICATED ON DRAWINGS TO BE PAID FOR UNDER ITEM 203.02.

LEGEND

- A EXIST. SCUPPER ON BRIDGE
- B EXIST. SCUPPER ON BRIDGE
- NEW 12" DIA. DOWNSPOUT PIPING
- 41.50 EXISTING INVERT ELEVATION
- 43.30 PROPOSED INVERT ELEVATION
- 12" NEW 12" DIA. BASIN CONNECTION
- ⊠ EXIST. INTERCEPTING CATCH BASIN
- ⊠ CATCH BASIN NO.1
- S → EXIST. STORM SEWER
- W — EXIST. WATER MAIN
- G — EXIST. GAS MAIN
- 20 — EXIST. CONTOUR
- ⊠ EXIST. PIERS
- ⊠ NEW CATCH BASIN TYPE-2 (ITEM 604.501102)
- FA — FIRE ALARM
- E — ELECTRIC
- NEW MANHOLE
- EXISTING CATCH BASIN
- ⊠ PLUG END OF EXISTING PIPE WITH CONCRETE, 1'±
- ⊠ EXISTING INTERCEPTING INLET OR CATCH BASIN TO BE ABANDONED, FILLED AND SEALED.

- ⊠ EXISTING SUPERSTRUCTURE INLET TO BE SEALED.
- ⊠ NEW CATCH BASIN TYPE-3, ITEM 604.501103 WITH NYC DEP STANDARD CAST IRON FRAME AND GRATING (WITHOUT CURB PIECE) ITEM 655.01 AND STANDARD C.I. MANHOLE FRAME AND COVER. ITEM 655.01
- ⊠ EXISTING SEWER TO BE ABANDONED.
- CS — EXISTING COMBINED SEWER.

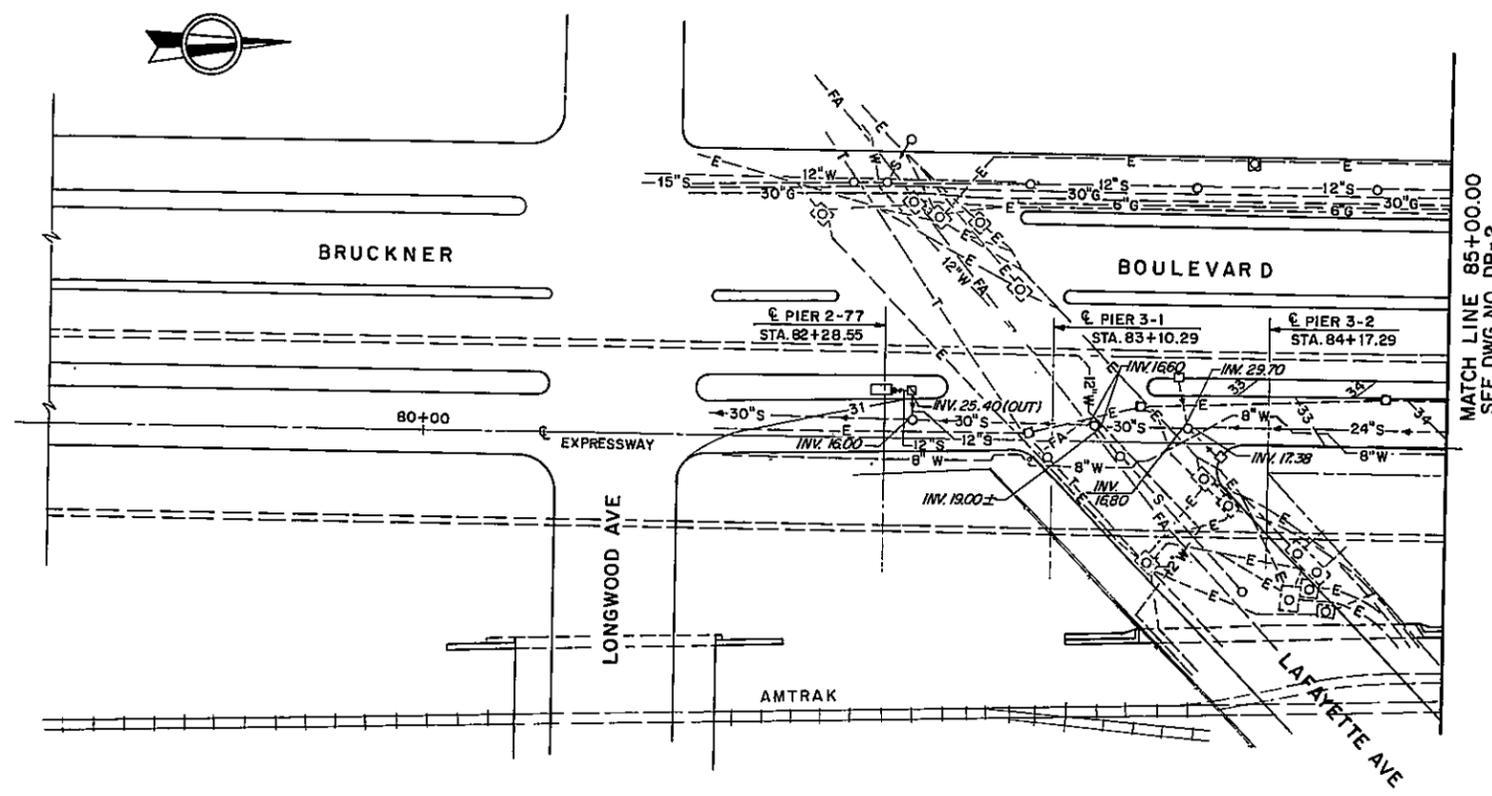
AS - BUILT REVISIONS

SIGNATURE _____ DATE _____

DRAINAGE PLAN I

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
DP-1	1" = 40'-0"	5-29-1994	II



PLAN

GENERAL DRAINAGE NOTES

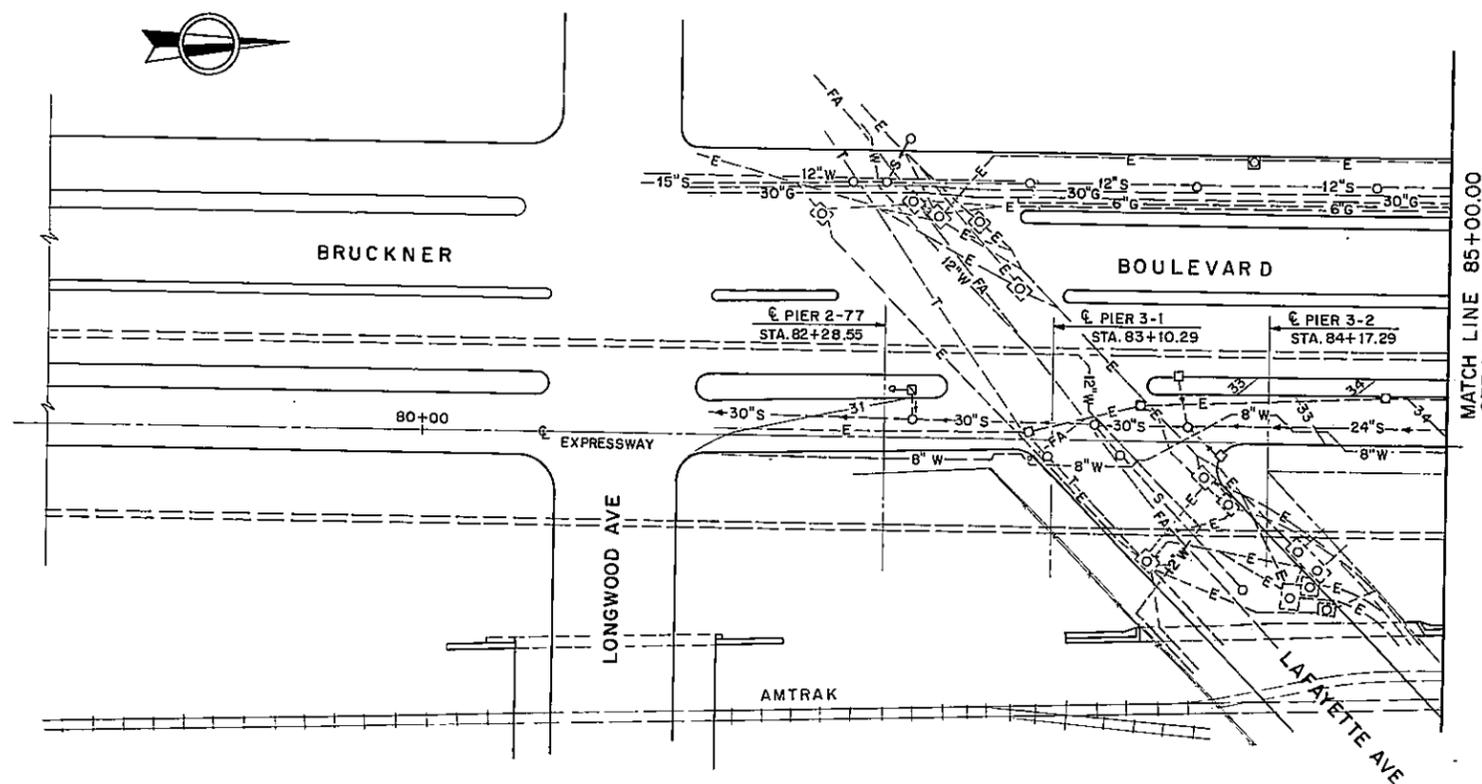
- THE E.I.C. SHALL KEEP AN INVENTORY OF ALL DRAINAGE HARDWARE DELIVERED TO THE CITY AND APPRAISE ITS COST.
- AT THE COMPLETION OF DELIVERY OF THE NOTED HARDWARE TO THE CITY, THE E.I.C. SHALL PROCESS A CREDIT TO BE APPLIED TO THE FEDERAL PARTICIPATION SHARE. THE CREDIT SHALL INCLUDE THE COST OF THE 12 (TWELVE) GRATES TYPE A AND THE 12 (TWELVE) GRATES TYPE B TO BE DELIVERED TO THE CITY.
- ANY DAMAGE TO MANHOLES CAUSED BY THE CONTRACTORS WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE STATE.
- WHERE THE HEIGHT OF AN EXISTING MANHOLE PERMITS MORE THAN ONE BASIN CONNECTION TO BE MADE ON THE SAME WALL, SPECIAL PRECAUTION SHALL BE TAKEN TO PROTECT THE STRUCTURAL INTEGRITY OF THE MANHOLE. THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE WALLS OF ANY TWO BASIN CONNECTIONS OR BETWEEN A BASIN CONNECTION AND A SEWER, VERTICALLY OR HORIZONTALLY, SHALL BE 12 INCHES.
- CATCH BASINS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO A SANITARY SEWER.
- ALL NEW CATCH BASIN CONNECTIONS SHALL BE CONNECTED TO EXISTING SEWERS AT MANHOLES, WITH 12" DIAMETER DUCTILE IRON PIPE, CLASS 56, WITH INTERNALLY LOCKED "PUSH-ON" JOINTS LAD ON 6" OF BROKEN STONE FOR ENTIRE WIDTH OF THE TRENCH AND FOR ONE-HALF THE PIPE DIAMETER. THE BROKEN STONE SHALL BE HARD UNWEATHERED STONE, UNFORMLY GRADED FROM 1/4" TO 3/4" IN DIAMETER. IT SHALL CONFORM TO COMMERCIAL 1/4" TO 3/4" STONE. ALL NEW CATCH BASINS SHALL HAVE A HOOD ON THE OUTLET PIPE.
- CATCH BASINS SHALL NOT BE LOCATED WITHIN PEDESTRIAN CROSSWALK LIMITS. CATCH BASINS NEAR BUS STOP PADS SHALL BE LOCATED EITHER ENTIRELY WITHIN OR OUTSIDE OF BUS STOP PADS.
- CATCH BASINS IN THE PROJECT AREA SHALL BE MAINTAINED OPERABLE AT ALL TIMES. IF, AS A RESULT OF CONSTRUCTION, A FLOODING CONDITION OCCURS AT AN INTERSECTION OR THROUGH LANE, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT SAID CONDITION IN A MANNER APPROVED BY THE ENGINEER. SAID COST SHALL BE DEEMED INCLUDED IN THE PRICE BID FOR THE RESPECTIVE DRAINAGE ITEMS.
- EXCAVATION FOR CATCH BASINS SHALL NOT EXTEND BELOW THE INFLUENCE LINES OF THE FOOTINGS.

DATE 7-13-1994
 CHECKED BY D.K.
 DRAFTED BY E.S.
 CHECKED BY D.K.
 ESTIMATED BY H.L.
 CHECKED BY H.L.
 DESIGNED BY J.S.
 IN CHARGE OF R.L.A.

D254515

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		123k	199

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE**
PIN X730.28 BIN I-06666-9
BIN I-06666-F
BIN I-06666-G
BIN I-06666-H



MATCH LINE 85+00.00
SEE DWG NO. DP-2

PLAN

NOTES

- FOR DOWNSPOUT LAYOUT AND DETAILS SEE DWGS. DP-5 THRU DP-11.
- FOR BRIDGE DRAIN ADJUSTMENT AND NEW GRATING DETAILS, SEE DWG. DP-9.
- REPLACEMENT OF EXISTING GRATING SHALL BE DONE PRIOR TO SHIFTING THE TRAFFIC.
- THE ARROW AT PROPOSED SPLASH BLOCK DESIGNATES THE DIRECTION OF THE STORM FLOW.
- LOCATION AND SIZES OF EXISTING SEWERS AND TYPE OF INLETS SHOWN ARE BASED ON "AS BUILT" DRAWINGS (CONTRACT FIBE-60-1)
- FOR NEW FRAME AND GRATE, SEE DWG. DP-12
- CLEAN EXISTING DRAINAGE SYSTEM ITEM 15566.1302.

LEGEND

- A EXIST. SCUPPER ON BRIDGE
- B EXIST. SCUPPER ON BRIDGE
- NEW 12" DIA. DOWNSPOUT PIPING
- ↓ NEW 12" DIA. DOWNSPOUT WITH SPLASH BLOCK
- ↓ NEW 12" DIA. DOWNSPOUT CONNECTION TO UNDERGROUND
- OR EXIST. RECEIVING BASIN CONNECTED TO DOWNSPOUT
- S-→ EXIST. SEWER (WITH M.H.)
- W- EXIST. WATER MAIN
- =G= EXIST. GAS MAIN
- 20- EXIST. CONTOUR
- NEW FIELD INLET
- FA- FIRE ALARM
- E ELECTRIC CONDUIT (WITH M.H.)
- S-→ EXIST. SEWER (WITH C.B.)

AS - BUILT REVISIONS

- New Field Inlet Deleted and Replaced with splash pad.

Paul Henderson 4-17-77
SIGNATURE DATE

DRAINAGE PLAN I

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-1	SCALE 1" = 40'-0"	DATE 12-29-92	REGION II
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DATE _____ CHECKED BY D.K. _____ DRAFTED BY M.B. _____ AP _____ ESTIMATED BY L.C. _____ AP _____ CHECKED BY L.C. _____ DESIGNED BY R.L.A. _____ IN CHARGE OF _____

HC 47 2b (5-88)
IN CHARGE OF

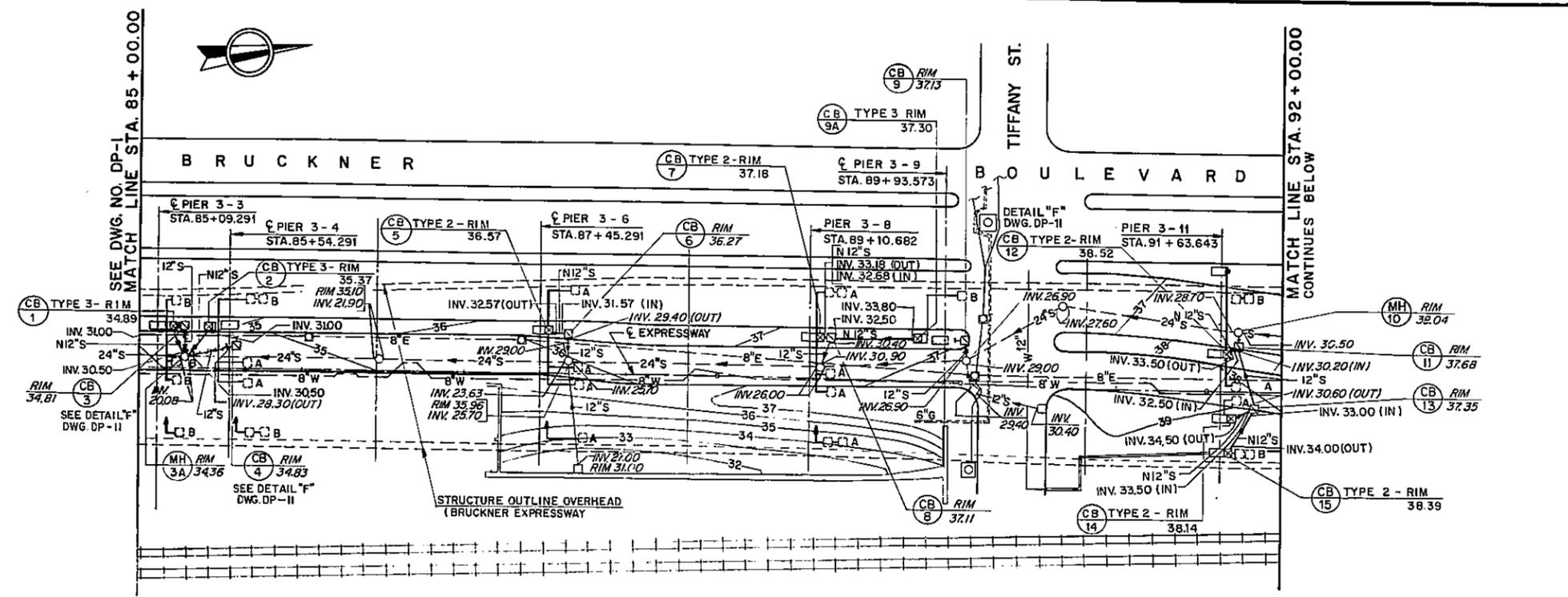
D254615

FED. ROAD REQ. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		124 F1	199

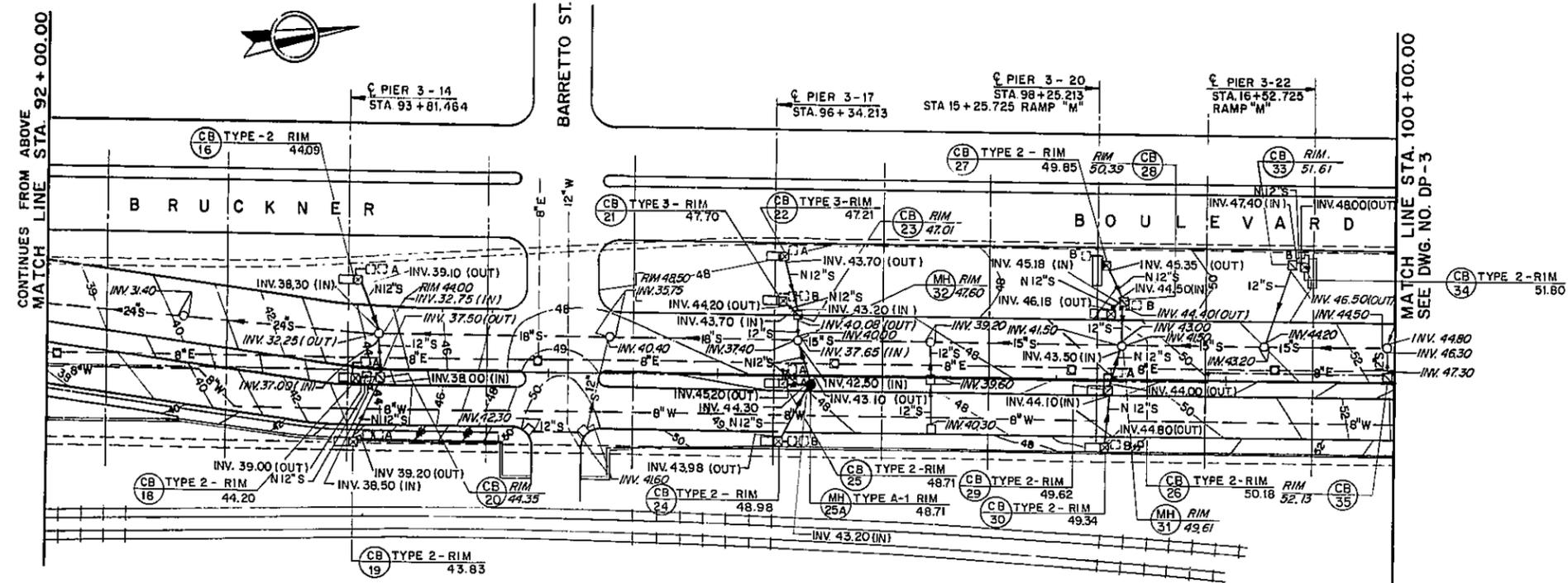
I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE
PIN X730.28 BIN I-06666-9
BIN I-06666-F
BIN I-06666-G
BIN I-06666-H

SEE SHEET 8F1 FOR APPROVAL SIGNATURE.

DATE 7-13-1994
 CHECKED BY D.K.
 DESIGNED BY J.S.
 ESTIMATED BY H.L.
 CHECKED BY H.L.
 DRAFTED BY D.K.
 CHECKED BY E.S.
 RLA IN CHARGE OF



PLAN



PLAN

AS - BUILT REVISIONS

- 1. New Field Inlet Deleted and Replaced with splash pad.

Carl R. ... 4-17-97
SIGNATURE DATE

DRAINAGE PLAN II

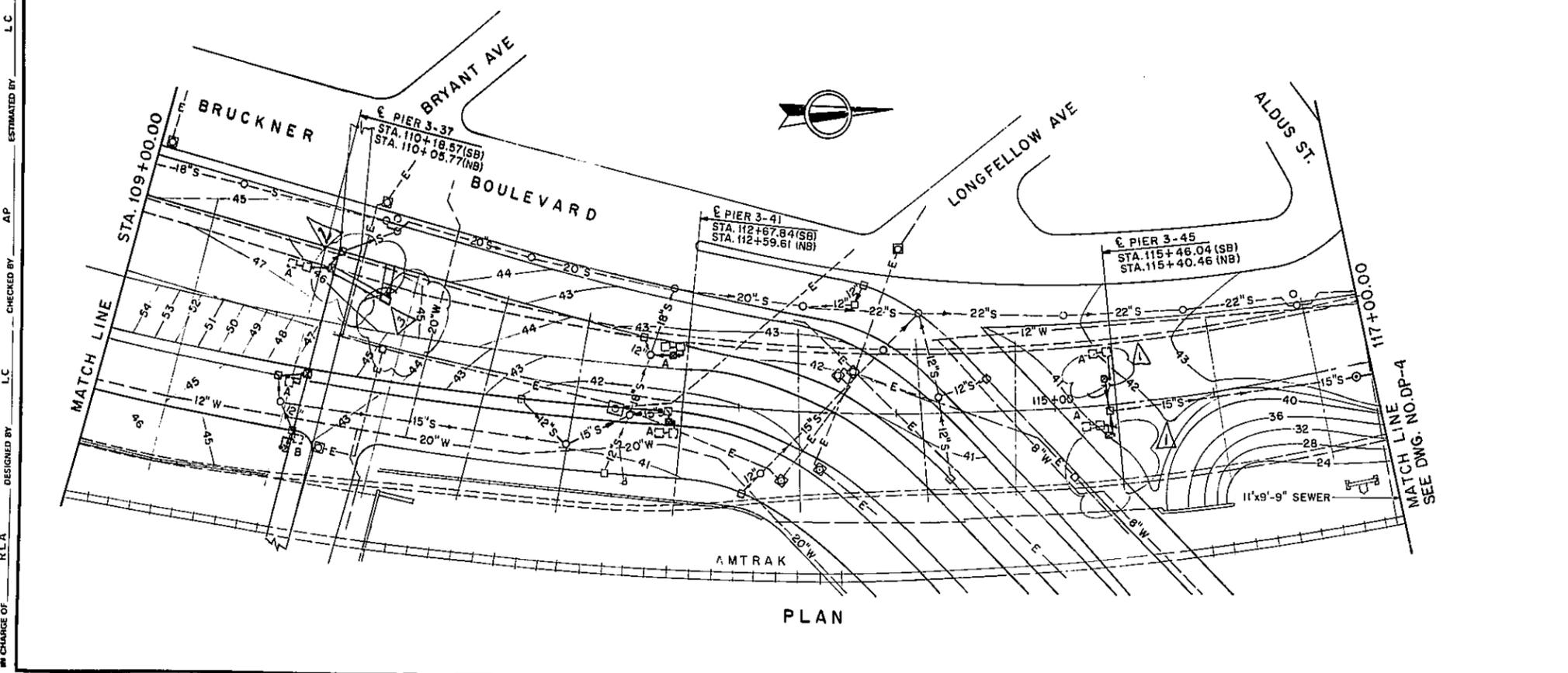
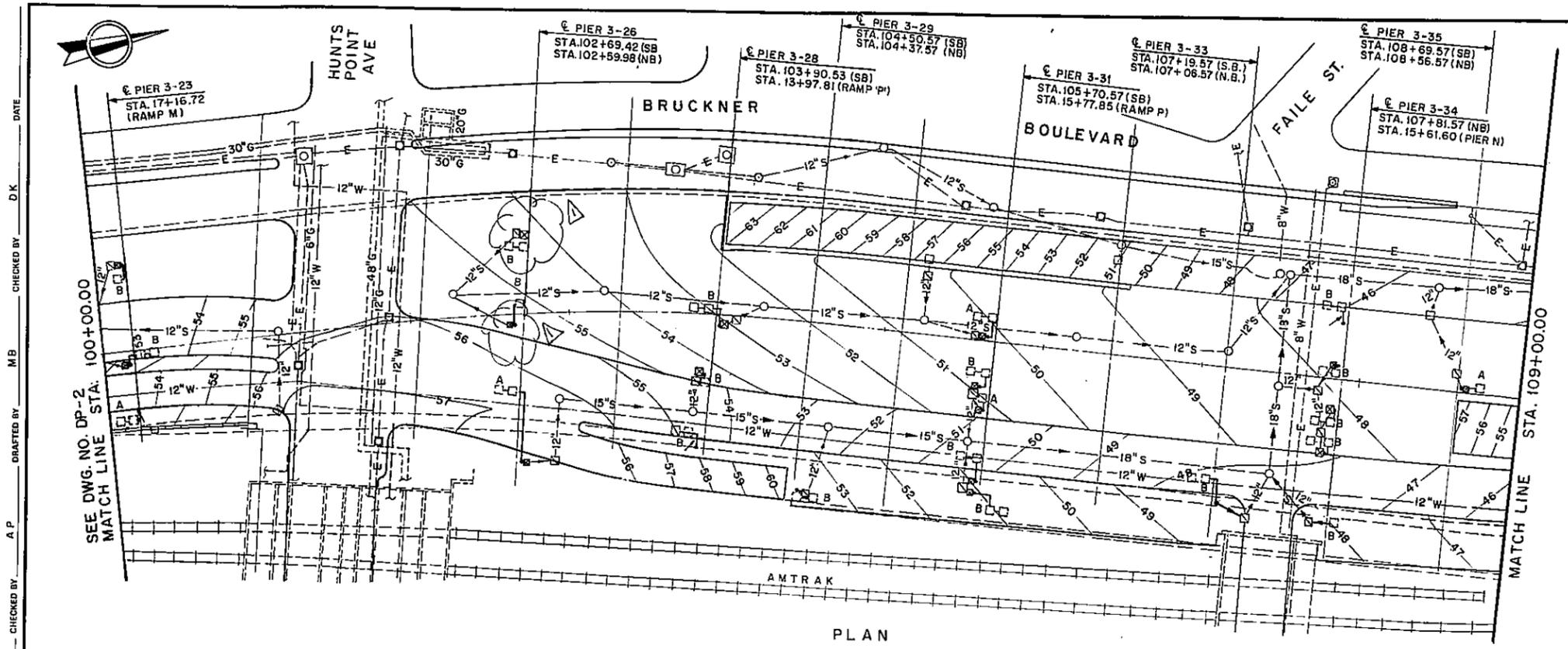
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-2	SCALE 1" = 40'-0"	DATE 8-29-1994	REGION II
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110

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		125	199

I-278 BRUCKNER EXPRESSWAY AND RAMP REHABILITATION AT SHERIDAN INTERCHANGE
 PIN X730.28 BIN I-06666-9
 BIN I-06666-F
 BIN I-06666-G
 BIN I-06666-H



AS - BUILT REVISIONS

1. Installed new CB. Paved over. No connections made
2. Paved surface drain
3. New Catch Basin
4. Apart from 1, 2, and 3, No other drainage work was performed on this sheet.

[Signature] 3-26-97
 SIGNATURE DATE

DRAINAGE PLAN III

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-3	SCALE 1"=40'-0"	DATE 12-29-92	REGION II
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DATE _____ CHECKED BY _____ D.K.
 MB _____ DRAFTED BY _____ M.B.
 A.P. _____ CHECKED BY _____ A.P.
 L.C. _____ ESTIMATED BY _____ L.C.
 AP _____ CHECKED BY _____ AP.
 L.C. _____ DESIGNED BY _____ L.C.
 R.L.A. _____ IN CHARGE OF _____ R.L.A.

D254615

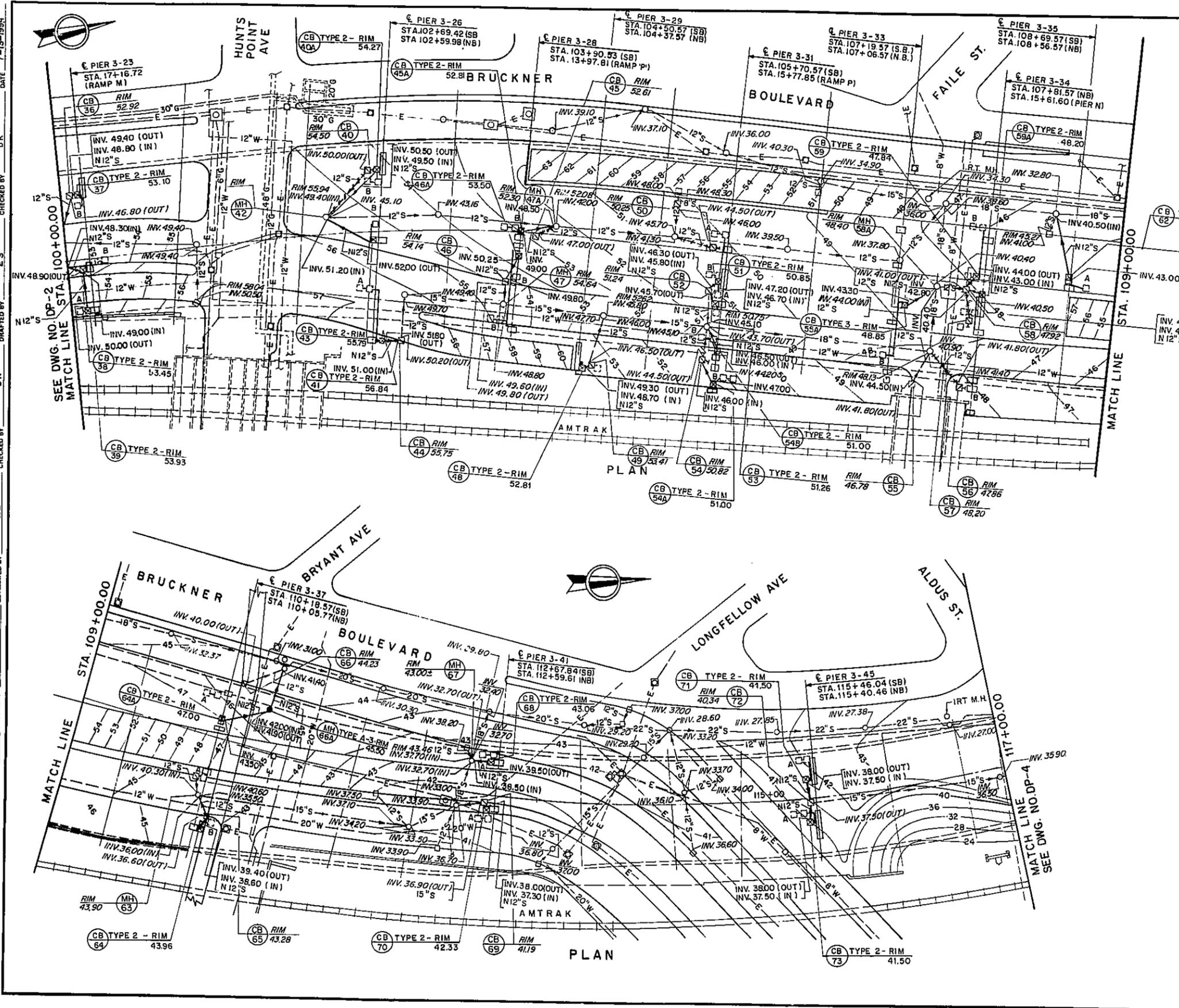
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NY		125 F1	179

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE
PIN X730.28**

BIN I-06666-9
BIN I-06666-F
BIN I-06666-G
BIN I-06666-H

SEE SHEET DP-1 FOR APPROVAL SIGNATURE.

REMOVE EXISTING BASIN ITEM 203.02.
REPLACE WITH TYPE-3 CATCH BASIN ITEM 604.50103



AS - BUILT REVISIONS

1 For drainage work performed on this sheet, refer to sheet no. 125R1

[Signature] 3-26-97
SIGNATURE DATE

DRAINAGE PLAN III

**STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION**

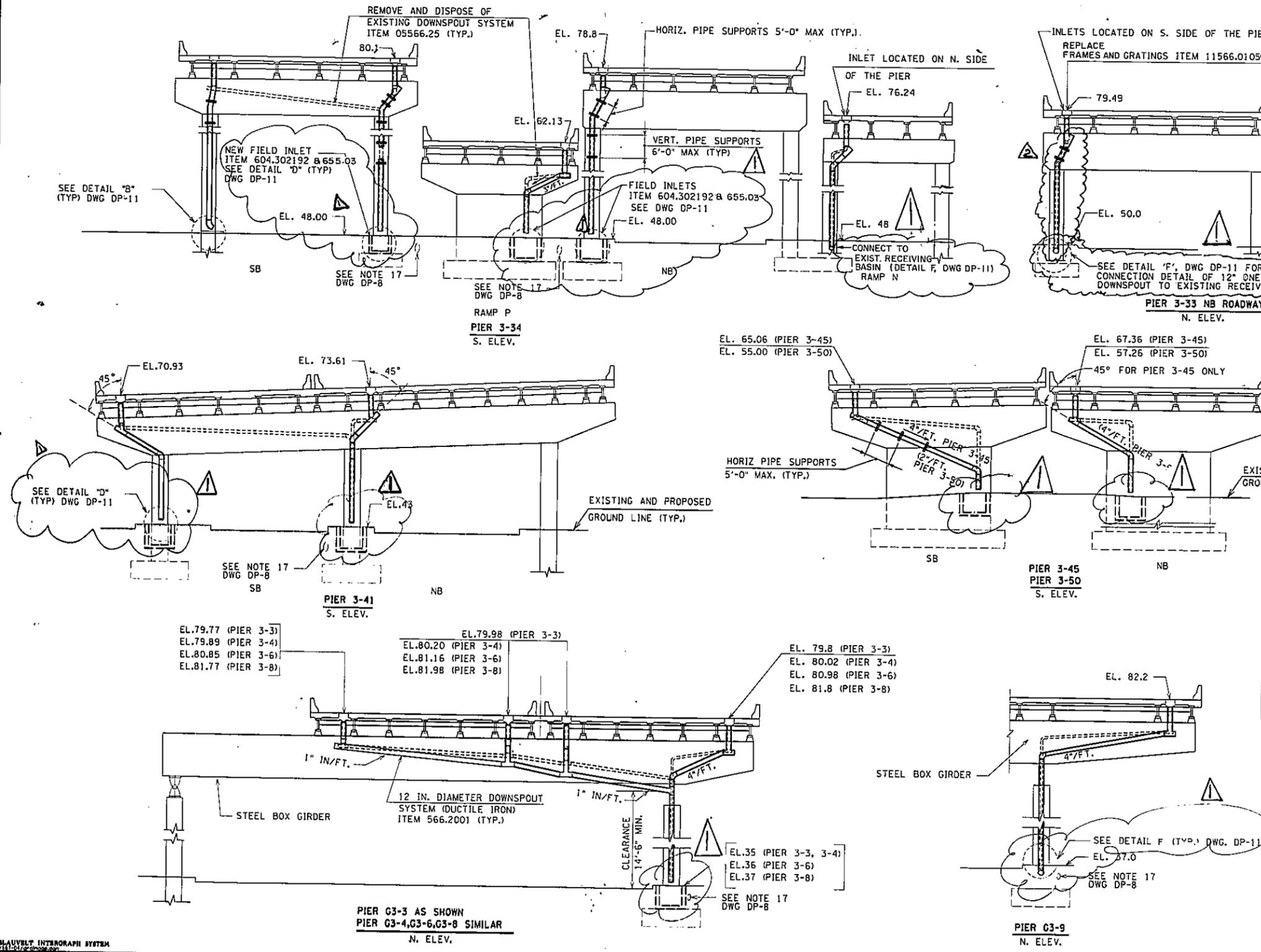
DRAWING NO.	SCALE	DATE	REGION	II
DP-3	1" = 40'-0"	8-29-1994		

DATE 7-13-1994
 CHECKED BY D.K.
 E.S.
 DRAFTED BY D.K.
 H.L.
 H.L.
 J.S.
 DESIGNED BY R.L.A.
 IN CHARGE OF

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		127R	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28		BIN 1-06666-9		

BIN 1-06666-F
 BIN 1-06666-G
 BIN 1-06666-H

DATE _____
 CHECKED BY _____
 PC _____
 K.S. _____
 IS _____
 ESTIMATED BY _____
 BV _____
 CHECKED BY _____
 K.S. _____
 RESUBMITTED BY _____
 R.L.A. _____



LEGEND

- || 12" DIA DOWNSPOUT SYSTEM (DUCTILE IRON) ITEM 566.2001
- EXISTING DOWNSPOUT SYSTEM TO BE REMOVED AND DISPOSED ITEM 05566.25
- NEW FIELD INLET ITEM 604.302192 AND FRAME & GRATE ITEM 655.03

TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

1. New Field Inlet Deleted and Replaced with splash pad.
2. Pipe Installed on South Side of Pier.

[Signature] 3-26-97
 SIGNATURE DATE

DOWNSPOUTING LAYOUT I

**STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION**

DRAWING NO. DP-5	SCALE 1"=10'	DATE 12-29-92	REGION 11
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7-13-94 DATE
 DK CHECKED BY
 EZ DRAFTED BY
 DK CHECKED BY
 HL ESTIMATED BY
 HL CHECKED BY
 JS DESIGNED BY
 RLA IN CHARGE OF

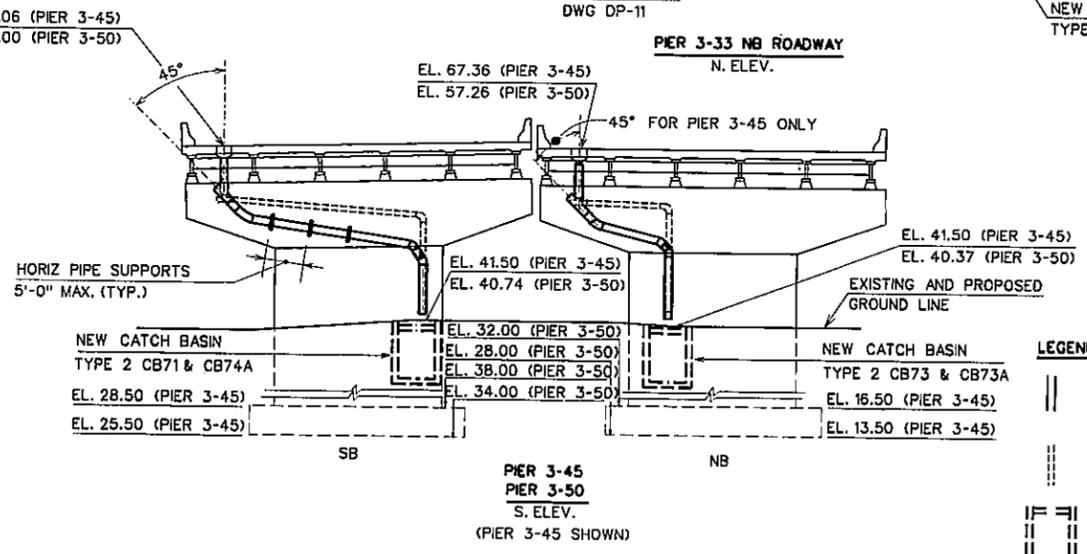
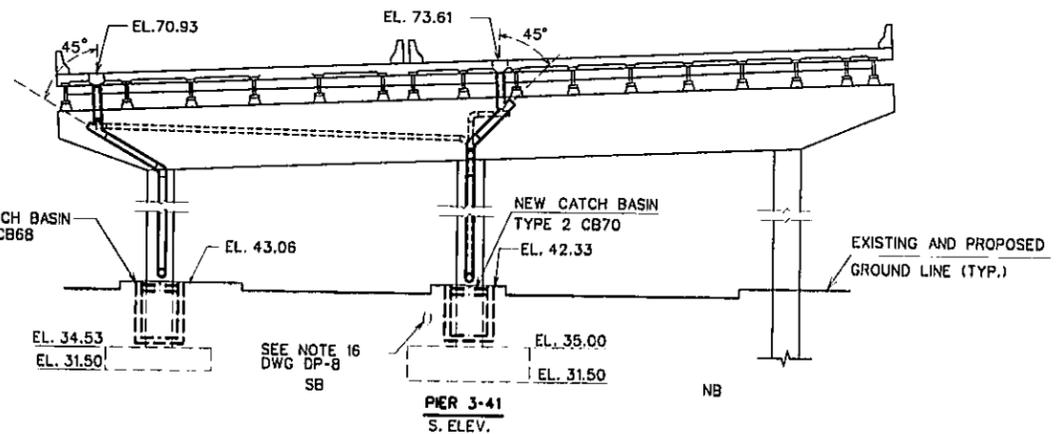
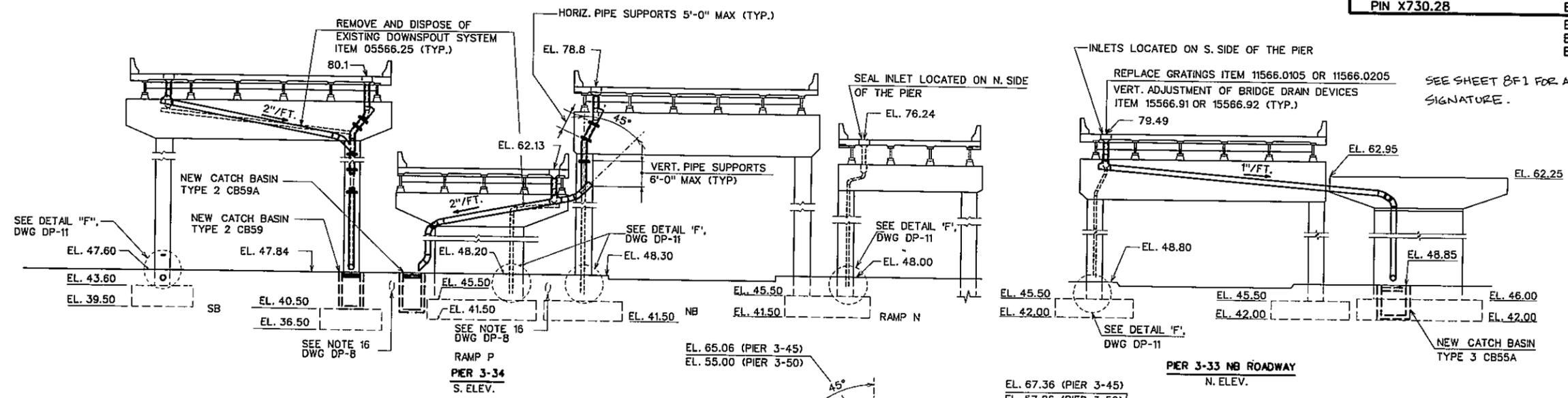
D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		127	129

I-278 BRUCKNER EXPRESSWAY AND RAMPS
 REHABILITATION AT SHERIDAN INTERCHANGE
 PIN X730.28 BIN 1-06666-9

BIN 1-06666-F
 BIN 1-06666-G
 BIN 1-06666-H

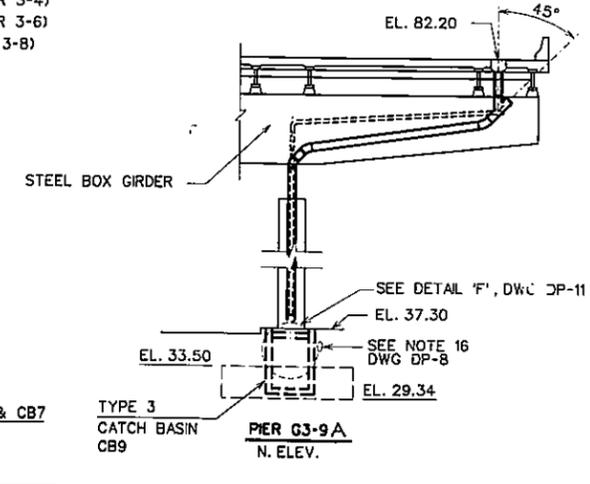
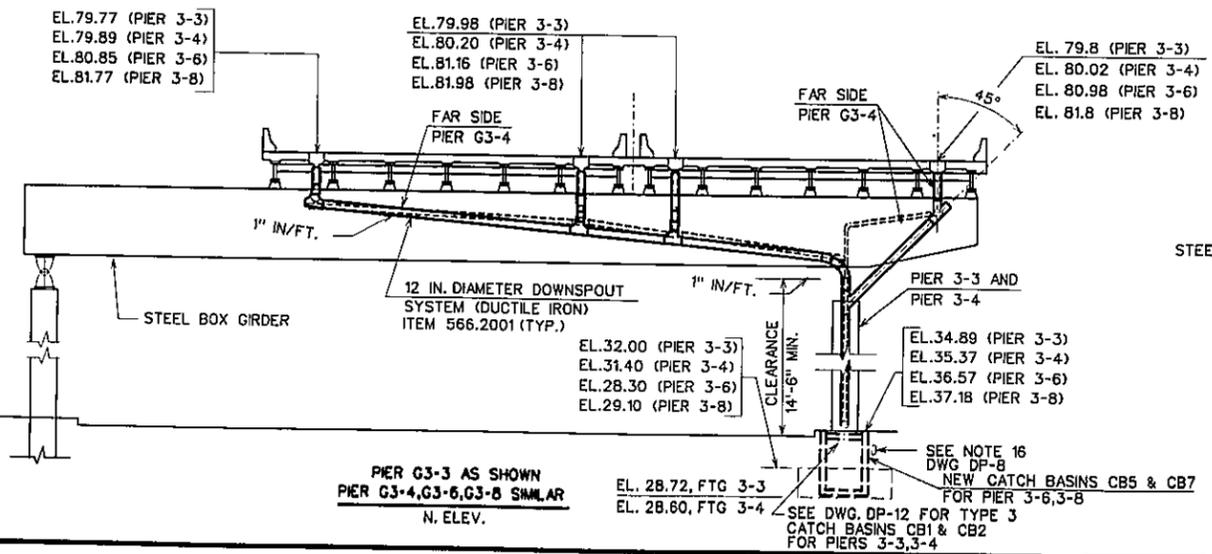
SEE SHEET B/F 1 FOR APPROVAL SIGNATURE.



LEGEND

- 12" DIA DOWNSPOUT SYSTEM (DUCTILE IRON) ITEM 566.2001
- EXISTING DOWNSPOUT SYSTEM TO BE REMOVED AND DISPOSED ITEM 05566.25
- NEW CATCH BASIN TYPE 2 OR TYPE 3

TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.



AS-BUILT REVISIONS

1. For As Built Revision see dwg. No. 127R1

SIGNATURE
 3-26-97
 DATE

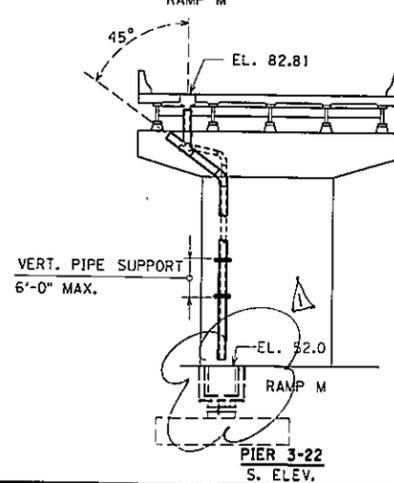
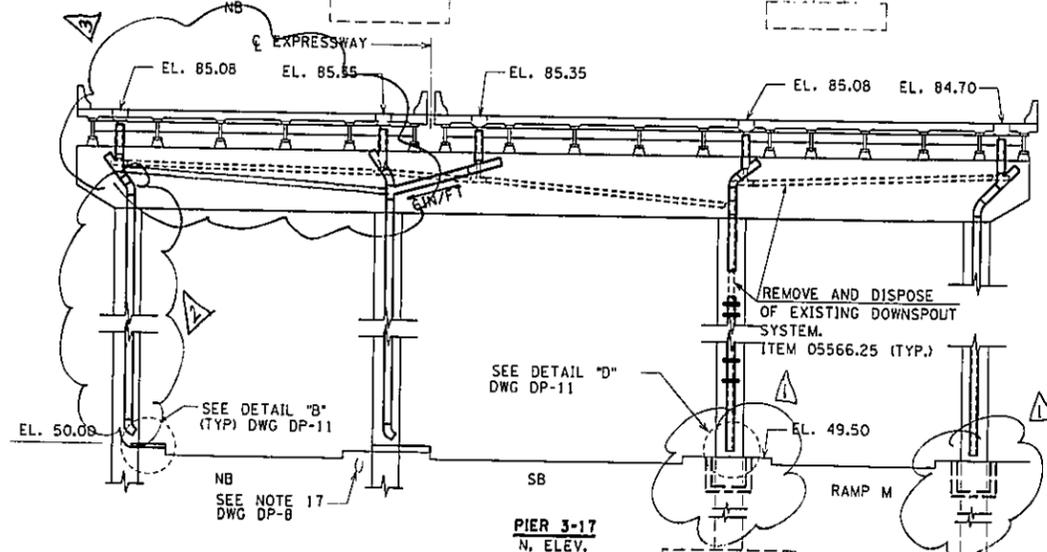
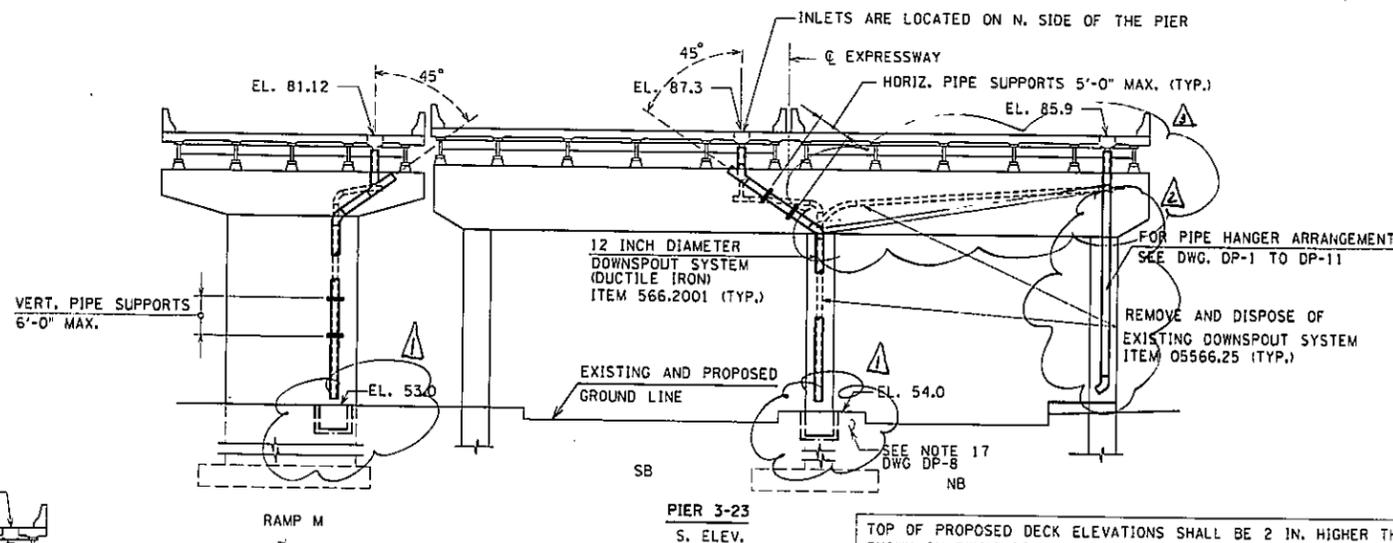
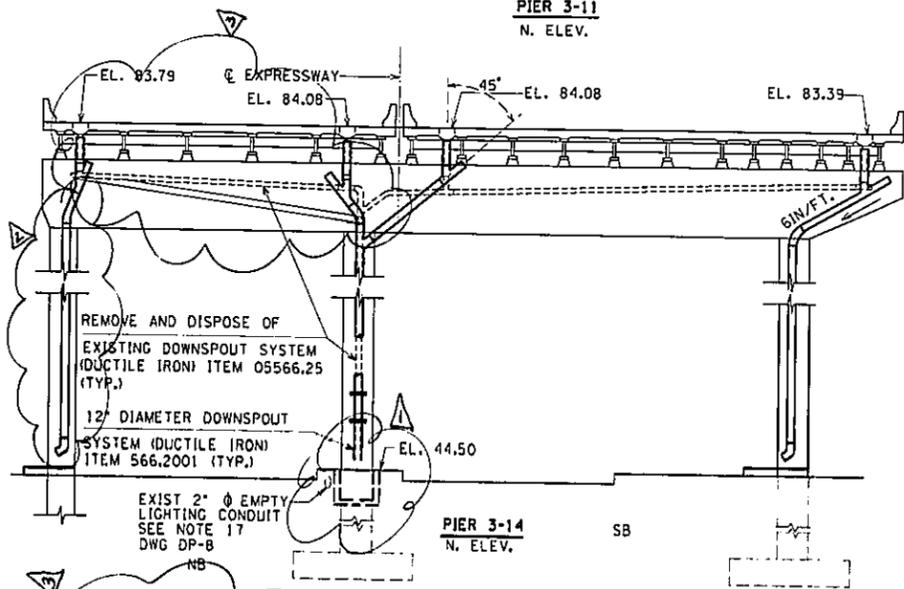
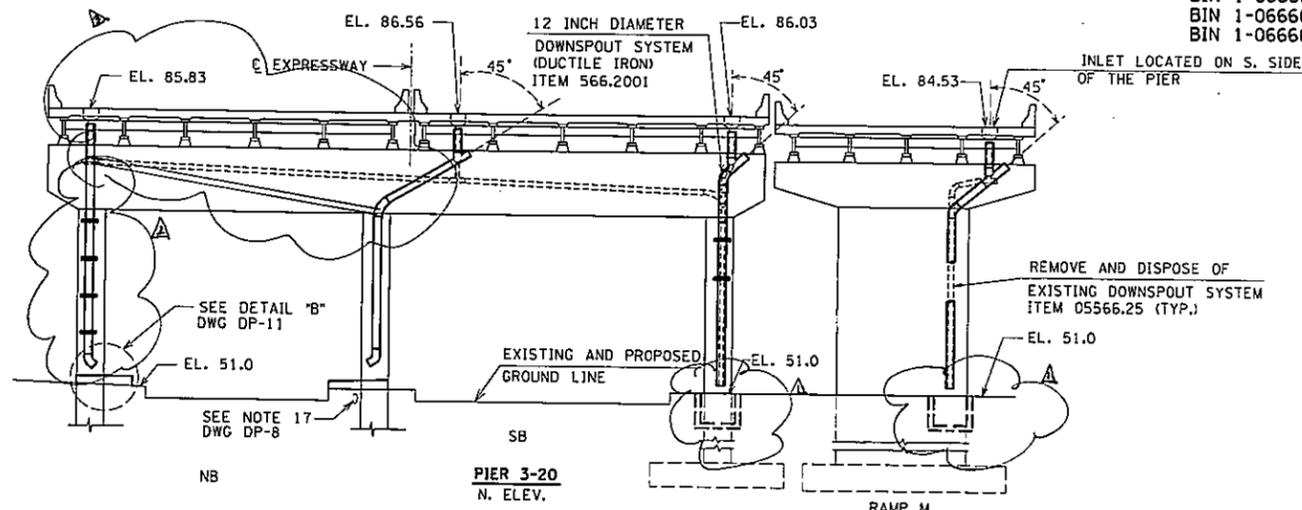
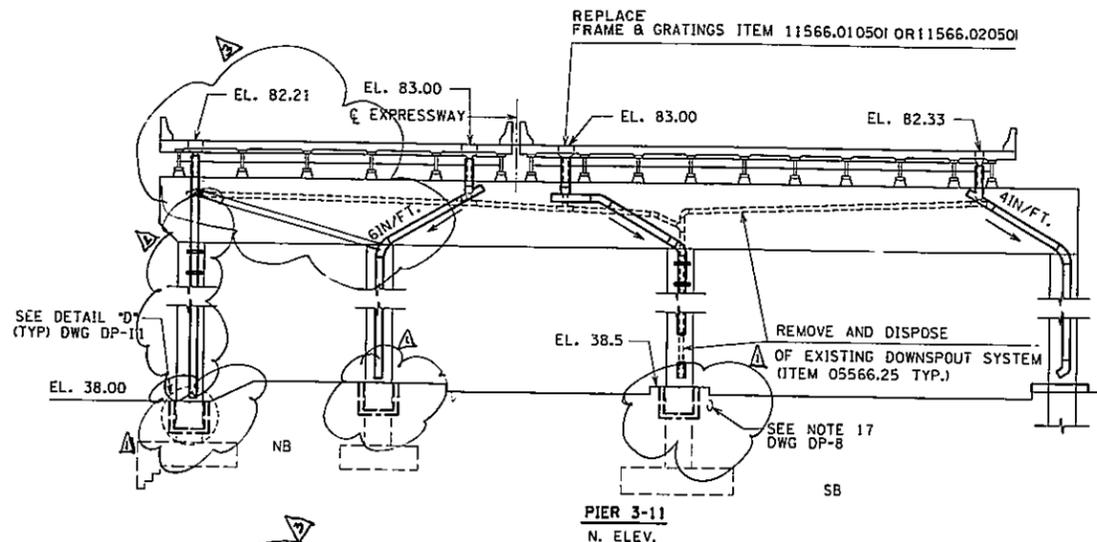
DOWNSPOUTING LAYOUT I

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-5	SCALE 1"=10'-0"	DATE 8-29-94	REGION 11
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FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		128	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	

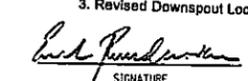
BIN 1-06666-F
 BIN 1-06666-G
 BIN 1-06666-H



TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

1. New Field Inlets Eliminated and Replaced with Splash Pads.
2. Downspout Eliminated
3. Revised Downspout Location

 3-26-97
 SIGNATURE DATE

DOWNSPOUTING LAYOUT II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-6	SCALE 1"=10'	DATE 12-29-92	REGION 11
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IN CHARGE OF: R.L.A. DESIGNED BY: J.S. CHECKED BY: A.P. ESTIMATED BY: A.P. CHECKED BY: P.C. DATE

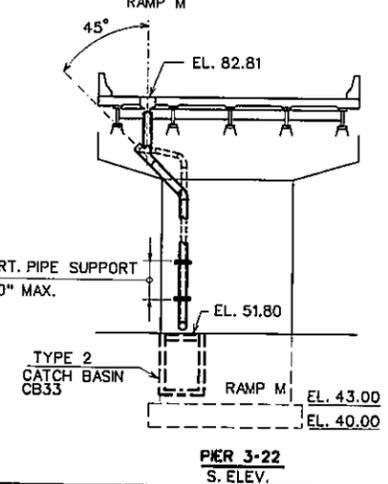
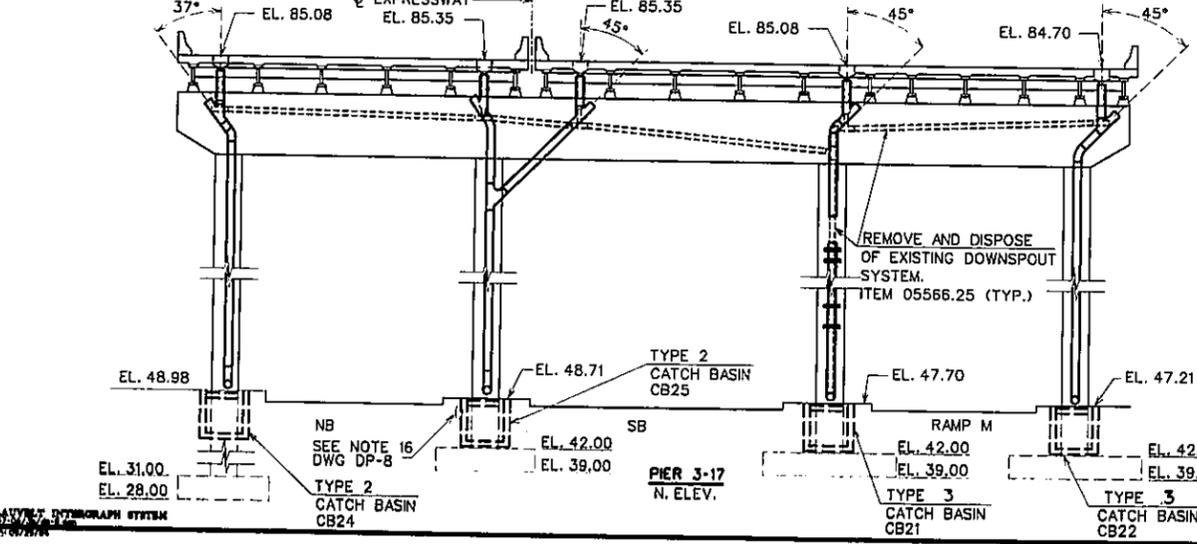
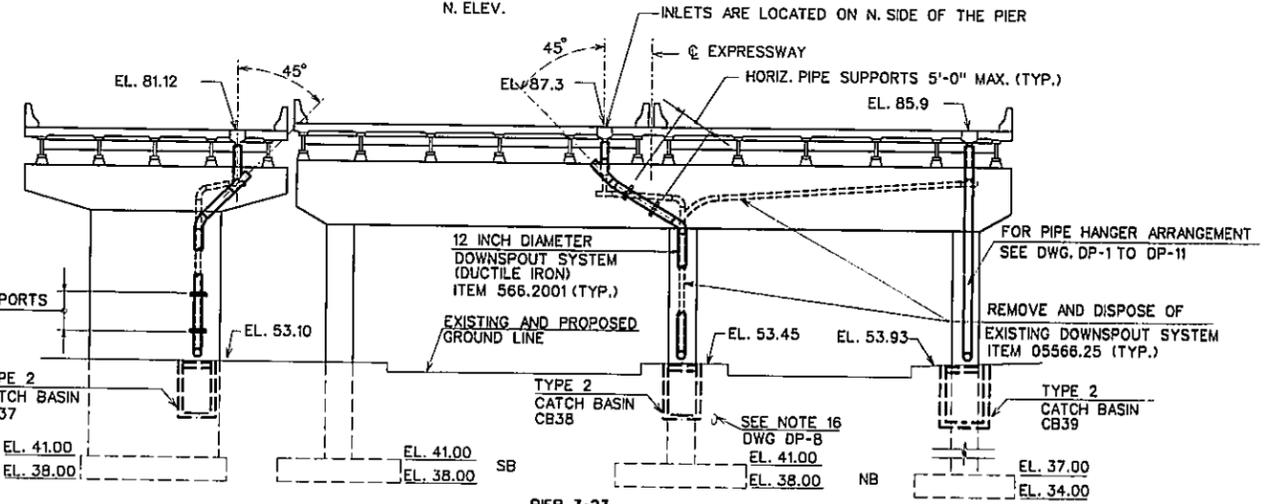
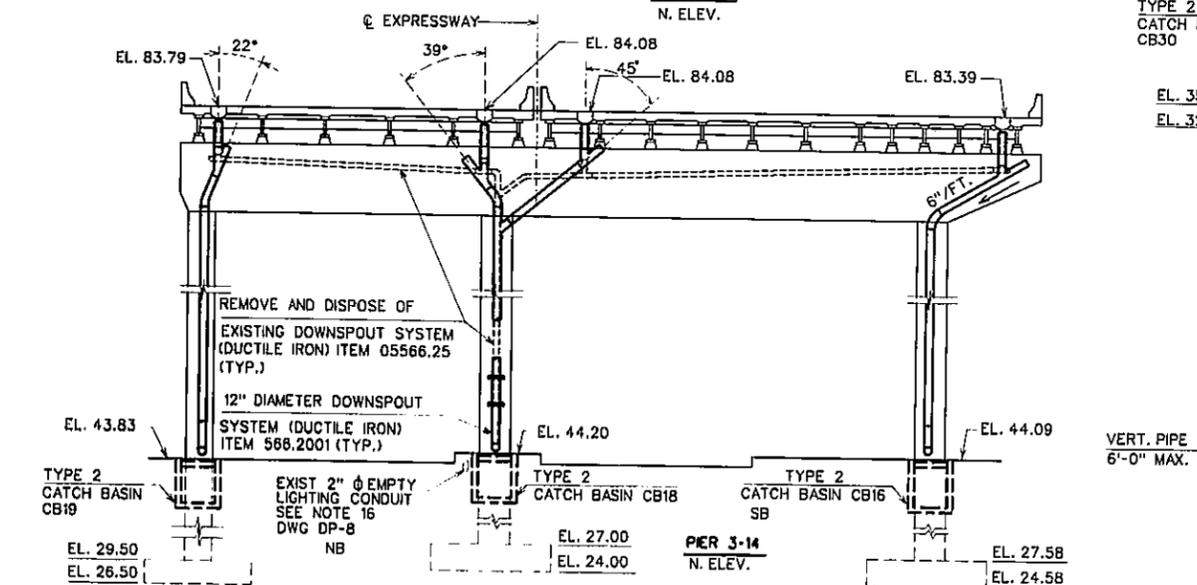
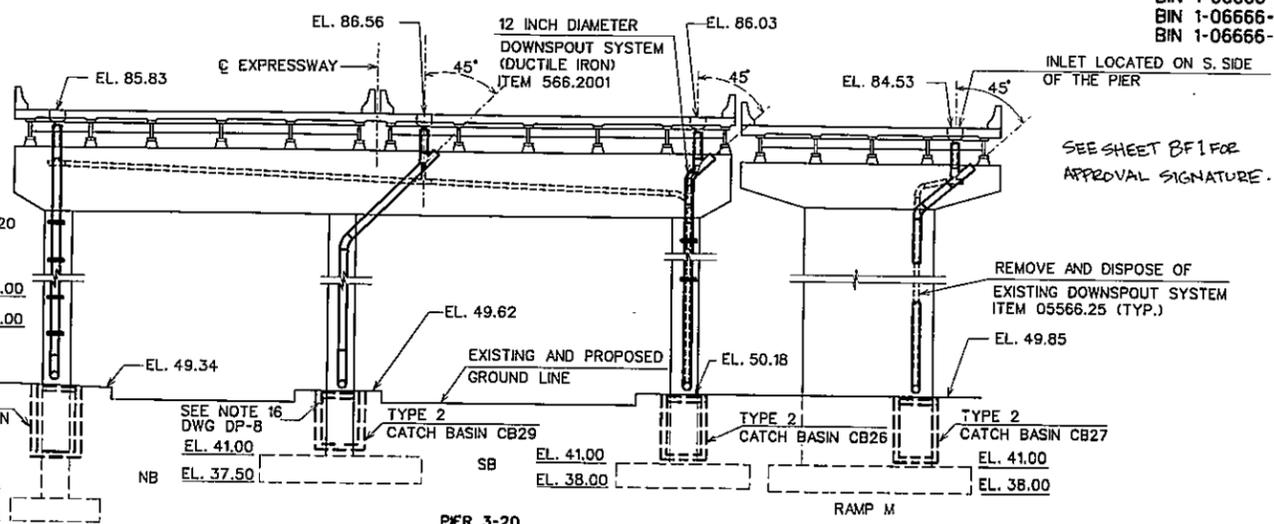
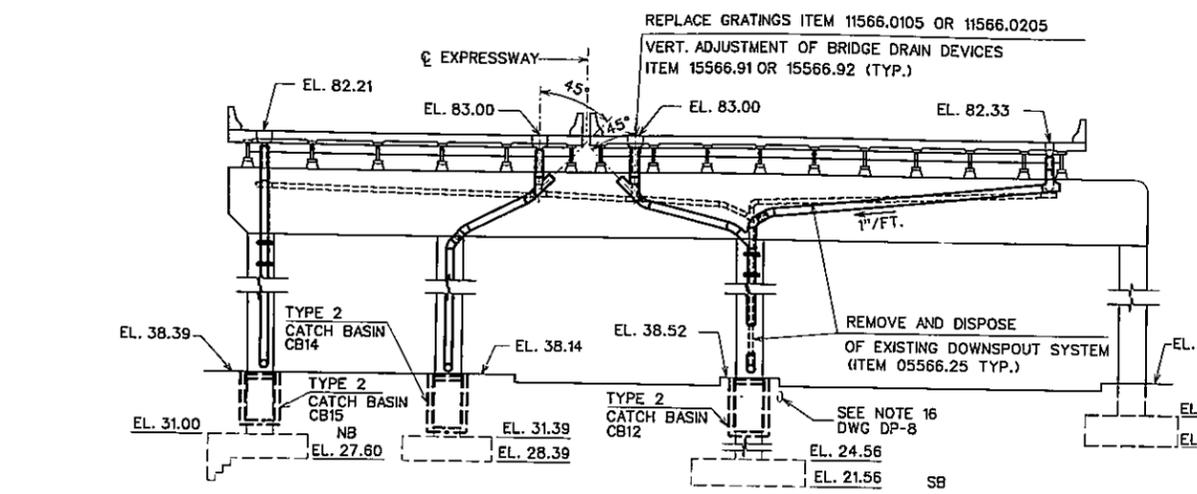
DATE 7-5-94
 CHECKED BY DK
 DRAFTED BY EZ
 DK
 HL
 ESTIMATED BY HL
 CHECKED BY JS
 DESIGNED BY RLA
 IN CHARGE OF

D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		128	199

I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE
PIN X730.28

BIN 1-06666-F
 BIN 1-06666-G
 BIN 1-06666-H



TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1/2 IN. HIGHER IF THE OVERLAY IS LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

1. For As Built Revision see dwg. No. 128R1

SIGNATURE

3-26-97
 DATE

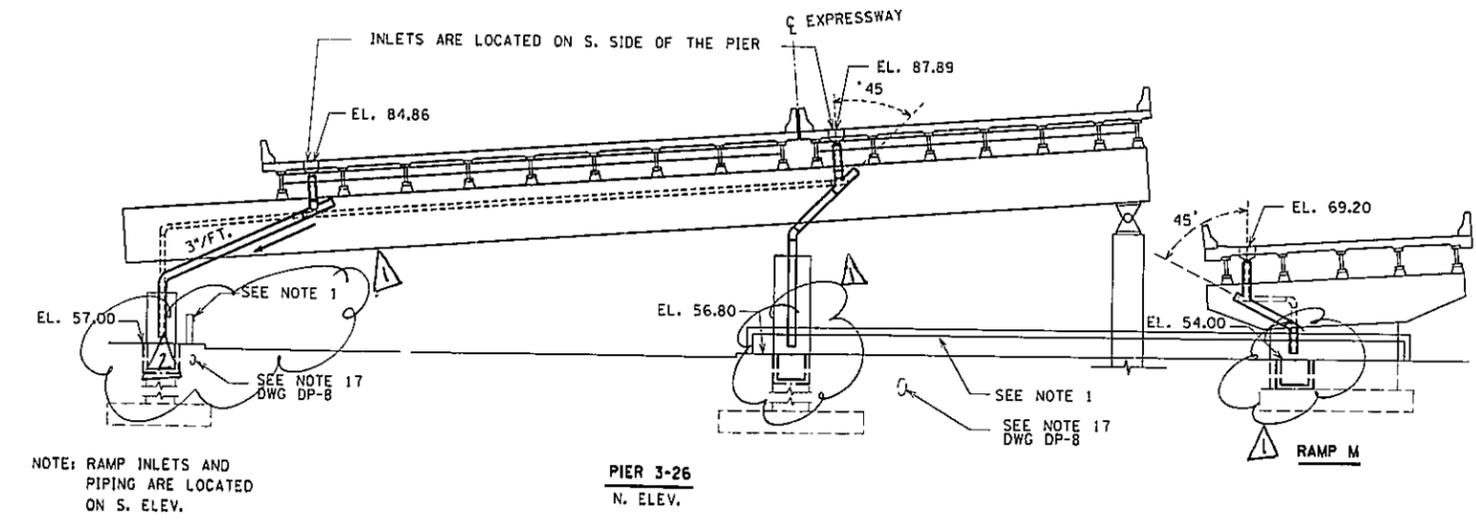
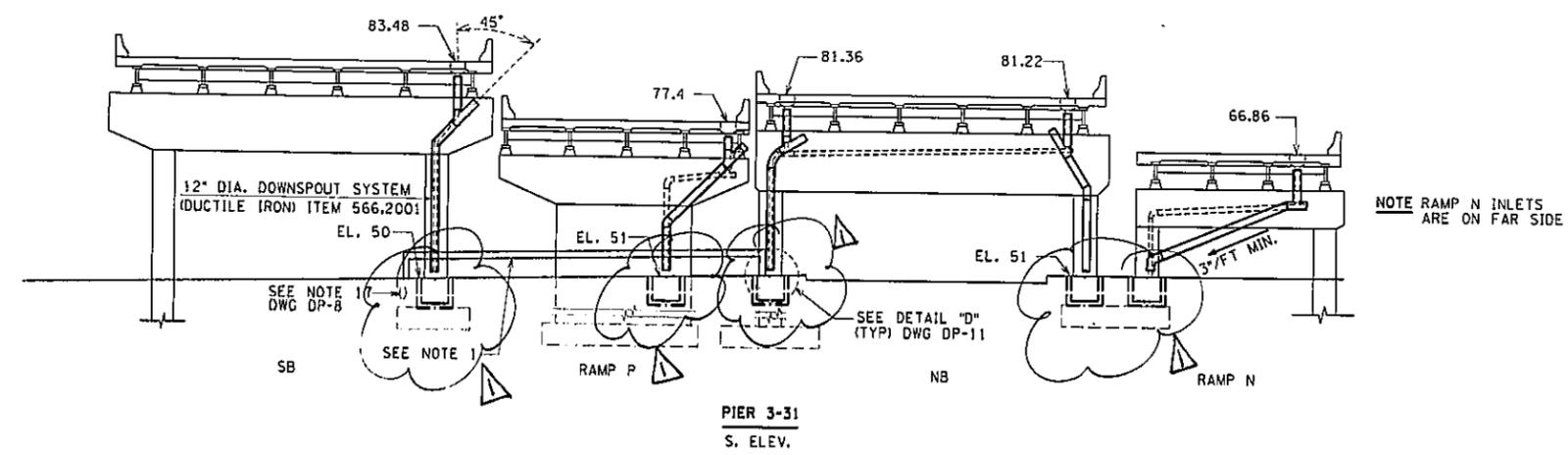
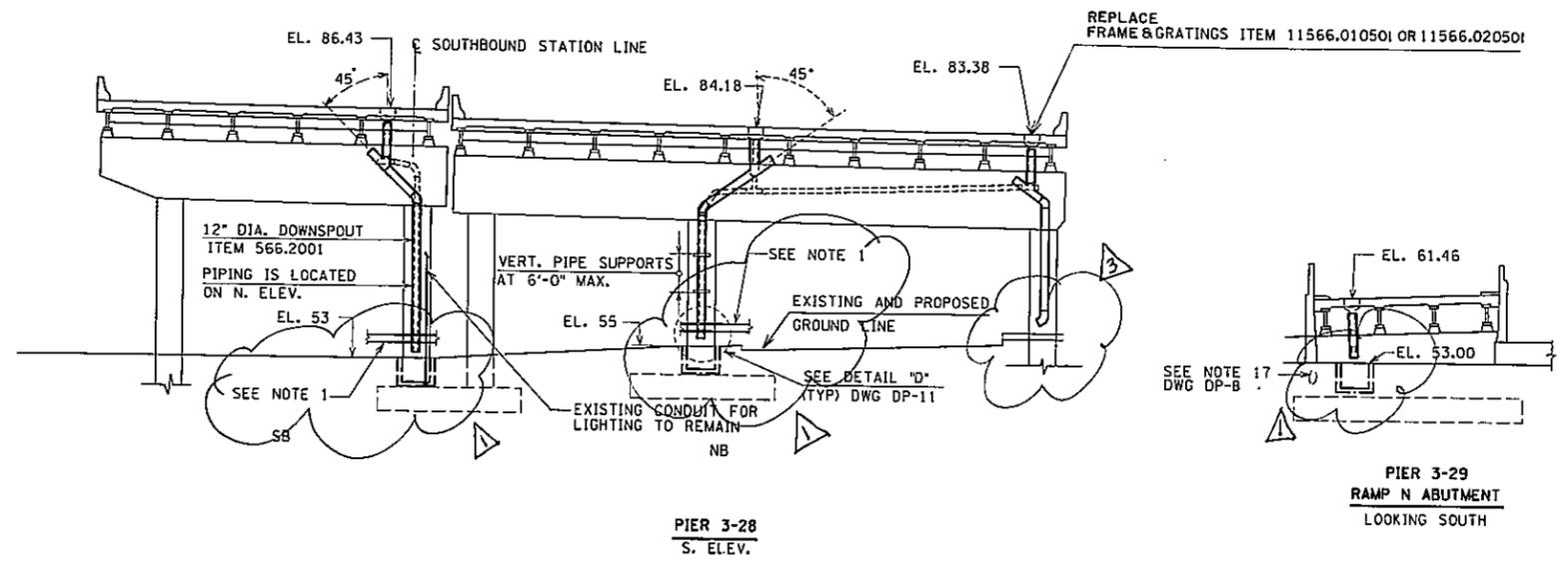
DOWNSPOUTING LAYOUT II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-6	SCALE 1"=10'-0"	DATE 8-29-94	REGION 11
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FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		129R1	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	

BIN 1-06666-F
 BIN 1-06666-G
 BIN 1-06666-H



- NOTES**
- REMOVE & RESET CORRUGATED BEAM GUIDE RAILING UNDER ITEM 606.50 .

TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

- New Field Inlets Eliminated and Replaced with Splash Pads.
- 45 Degree End Piece Eliminated
- Splash Pads Installed

Eric Roudsman 3-26-97
 SIGNATURE DATE

DOWNSPOUTING LAYOUT III

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-7	SCALE 1"=10'	DATE 12-29-92	REGION 11
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DK ONE
 CHECKED BY
 PC DRAFTED BY
 AP ESTIMATED BY
 AP CHECKED BY
 JS DESIGNED BY
 RLA CHECKED BY
 IN CHARGE OF

IN CHARGE OF: R.L.A. DESIGNED BY: J.S. CHECKED BY: H.L. ESTIMATED BY: H.L. CHECKED BY: H.L. DRAFTED BY: D.K. CHECKED BY: D.K. DATE: 7-5-94

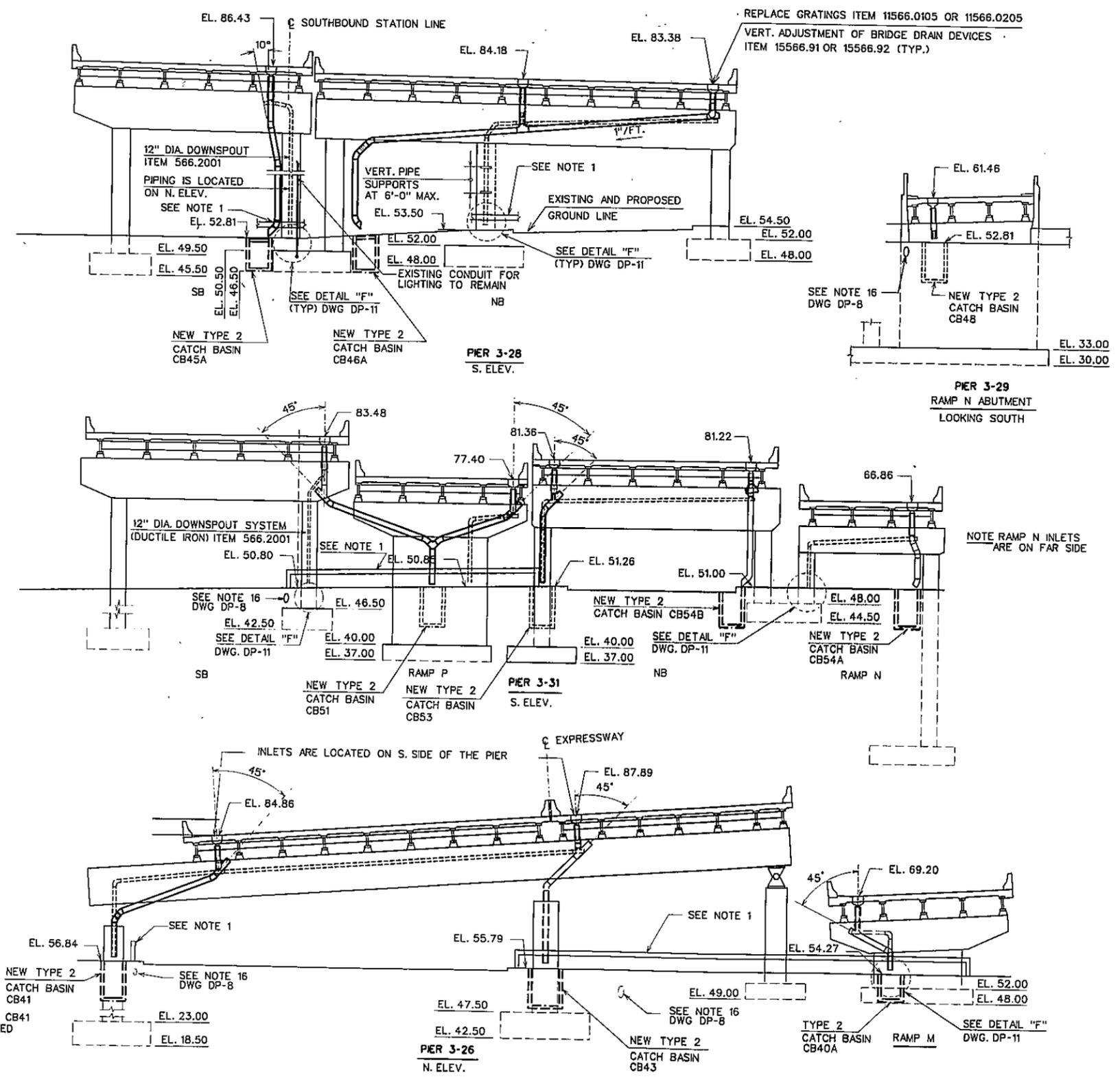
D254615

FED. ROAD REG. NO.	STATE	FEDERAL AD PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		129	199

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE**

PIN X730.28 **BIN 1-06666-9**
 BIN 1-06666-F
 BIN 1-06666-G
 BIN 1-06666-H

SEE SHEET BF 1 FOR APPROVAL SIGNATURE.



NOTES

1. REMOVE & RESET CORRUGATED BEAM GUIDE RAILING UNDER ITEM 606.50.

TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

1. For As Built Revision see dwg. No. 129R1

Carl Henderson 3-27-97
 SIGNATURE DATE

DOWNSPOUTING LAYOUT III

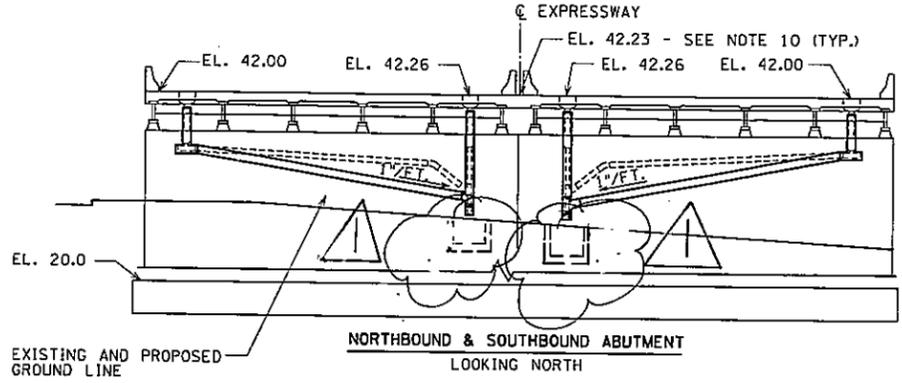
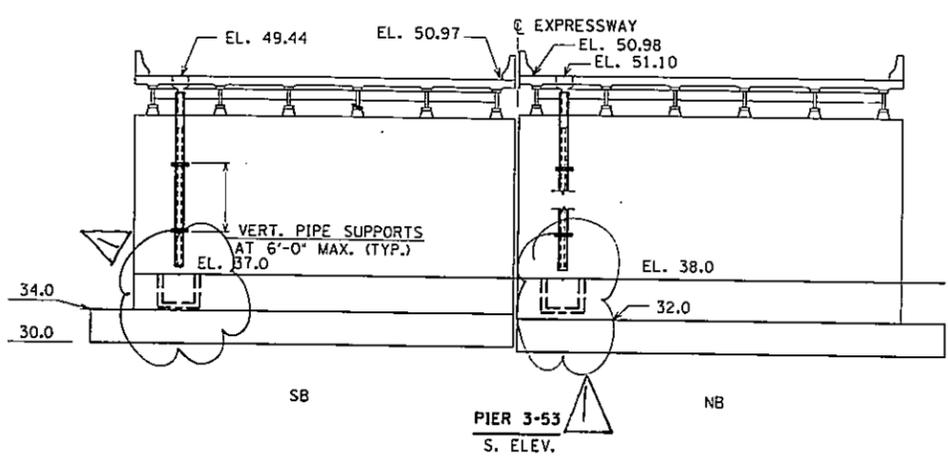
**STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION**

DRAWING NO. DP-7	SCALE 1"=10'-0"	DATE 8-29-94	REGION 11
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D254515

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		130	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	

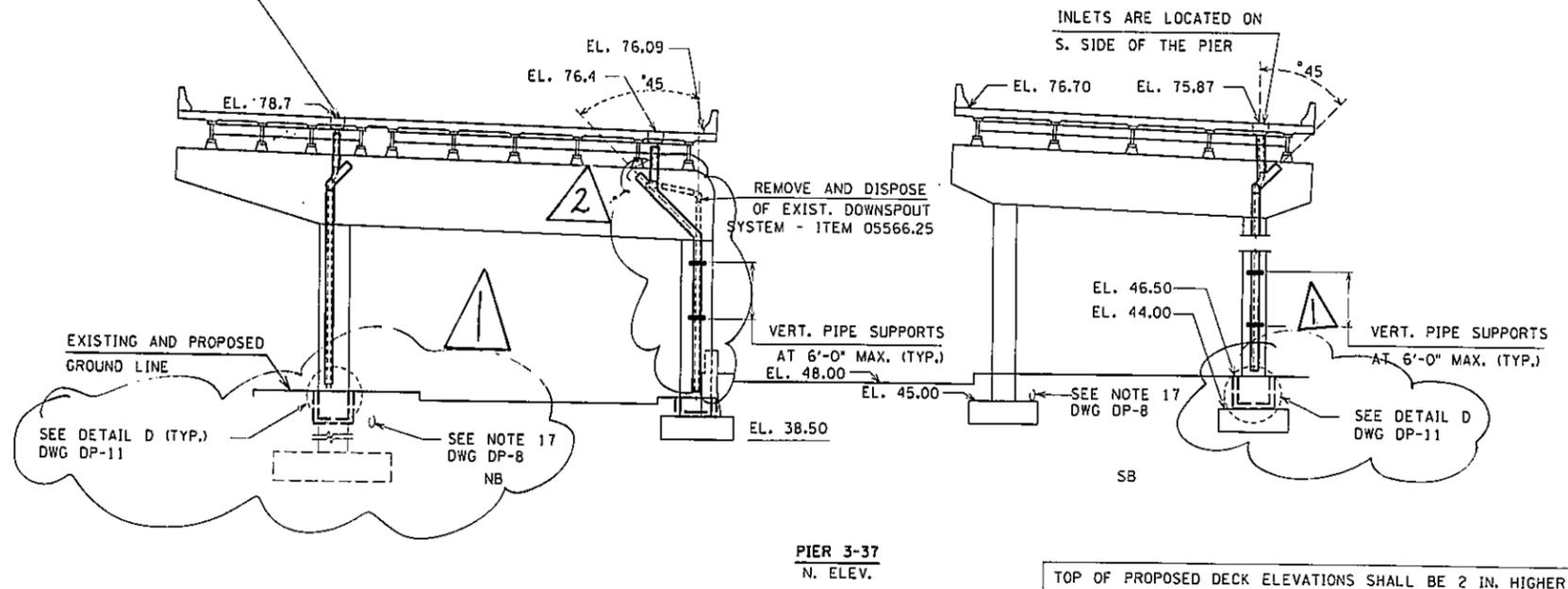
BIN 1-06666-F
BIN 1-06666-G
BIN 1-06666-H



DOWNSPOUTING LAYOUT NOTES

- FOR DRAINAGE PLANS SEE DWG. NOS. DP-1 TO DP-4.
- PROVIDE VERTICAL PIPE SUPPORTS AT 6'-0" MAX. SPACING. PROVIDE HORIZONTAL PIPE SUPPORTS AT 5'-0" MAX. SPACING, UNLESS OTHERWISE NOTED. FOR SUPPORT DETAILS SEE DWG. NO. DP-9.
- FOR DETAILS B, D, E, AND F SEE DWG. NO. DP-11
- FOR DETAILS A SEE DWG. NO. DP-9
- FOR DETAILS C SEE DWG. NO. DP-11
- WHERE STRUCTURAL STEEL BETWEEN STRINGERS IS PROVIDED TO SUPPORT DOWNSPOUT SYSTEM, THE COST IS TO BE INCLUDED IN THE COST OF DOWNSPOUT SYSTEM (DUCTILE IRON) ITEM 566.2001.
- FOR PURPOSES OF CLARITY, ELECTRICAL LINES ARE NOT SHOWN.
- FOR LEGEND, SEE DWG. NO. DP-5
- PIER CAPS AND COLUMNS ARE REINFORCED CONCRETE, UNLESS OTHERWISE NOTED.
- THE TOP OF DECK ELEVATIONS INDICATED ON THIS DWG. REPRESENT TOP OF EXISTING DECK ELEVATIONS AT CENTER LINE OF THE PIER OR ABUTMENT AND ARE COMPUTED ACCORDING TO THE "AS BUILT" LONGITUDINAL PROFILES AND CROSS-SLOPES. ALL VERTICAL ELEVATION SHALL BE CHECKED IN THE FIELD.
- GRADE ELEVATIONS SHOWN ON THIS DWG. REPRESENT EXISTING GRADE ELEVATIONS AT CENTER LINE OF THE PIER OR ABUTMENT ACCORDING TO "AS BUILT" SURFACE AND SUBSURFACE PLANS AND SHALL BE CHECKED IN THE FIELD.
- 1 1/2" PIPE SLOPE IS A MINIMUM.
- A VERTICAL CLEARANCE OF NOT LESS THAN 14.5 FT. SHALL BE PROVIDED AT TRAFFIC AREAS.
- THE CONTRACTOR HAS THE OPTION OF PROPOSING A DIFFERENT COMBINATION OF STANDARD FITTINGS TO THE ENGINEER FOR APPROVAL. USE OF 90° ELBOWS IS PROHIBITED.
- FLAT RUNS OF 12" DIAMETER PIPE SHALL BE SUPPORTED BY HANGERS SPACED NOT MORE THAN 5 FT. C.C..
- THE MINIMUM LENGTH OF STRAIGHT SECTION OF PIPE SHALL BE 2 FT..
- EXISTING IN GROUND CONDUIT WIRES & SERVICE BOXES FOR LIGHTING TO BE PROTECTED DURING CONSTRUCTION.

REPLACE FRAMES AND GRATINGS ITEM 11566.010501 OR 11566.020501



TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS
1. New Field Inlets Eliminated and Replaced with Splash Pads.
2. Downspout Located on South Side of Pier.
Eric Rindler 3-27-97
SIGNATURE DATE

DOWNSPOUTING LAYOUT IV
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-8	SCALE 1"=10'	DATE 12-29-92	REGION 11
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IN CHARGE OF: RL-A
 DESIGNED BY: IS
 CHECKED BY: IS
 ESTIMATED BY: VJN
 CHECKED BY: IS
 DRAFTED BY: PC
 CHECKED BY: BM
 ONE

DESIGNED BY: RLA
 CHECKED BY: JS
 ESTIMATED BY: HL
 DRAWN BY: DK
 CHECKED BY: EZ
 DATE: 7-5-94

0254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		130F181	199

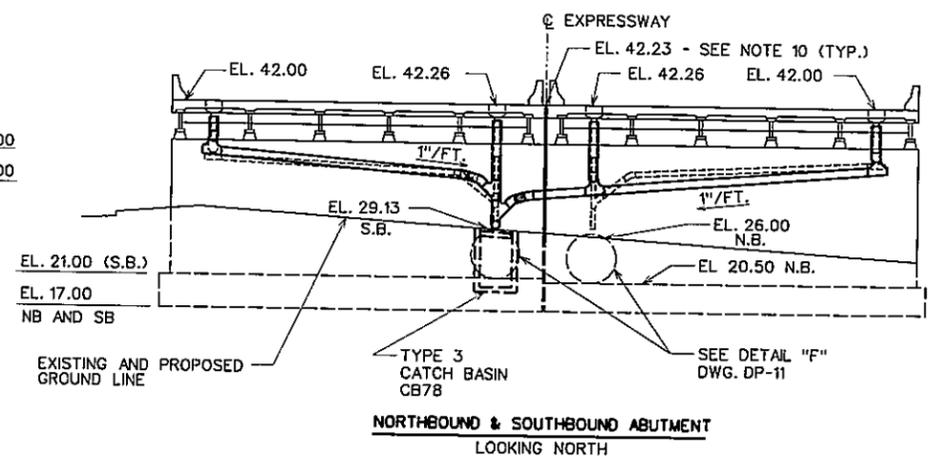
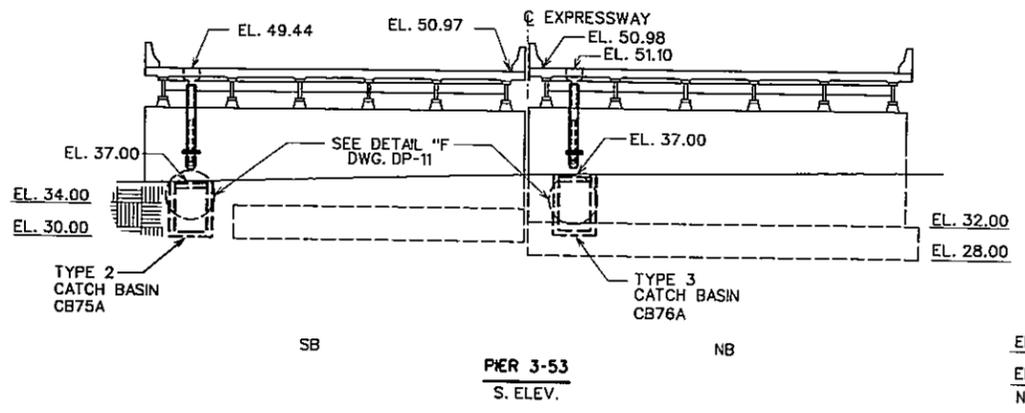
**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE**

PIN X730.28 BIN 1-06666-9

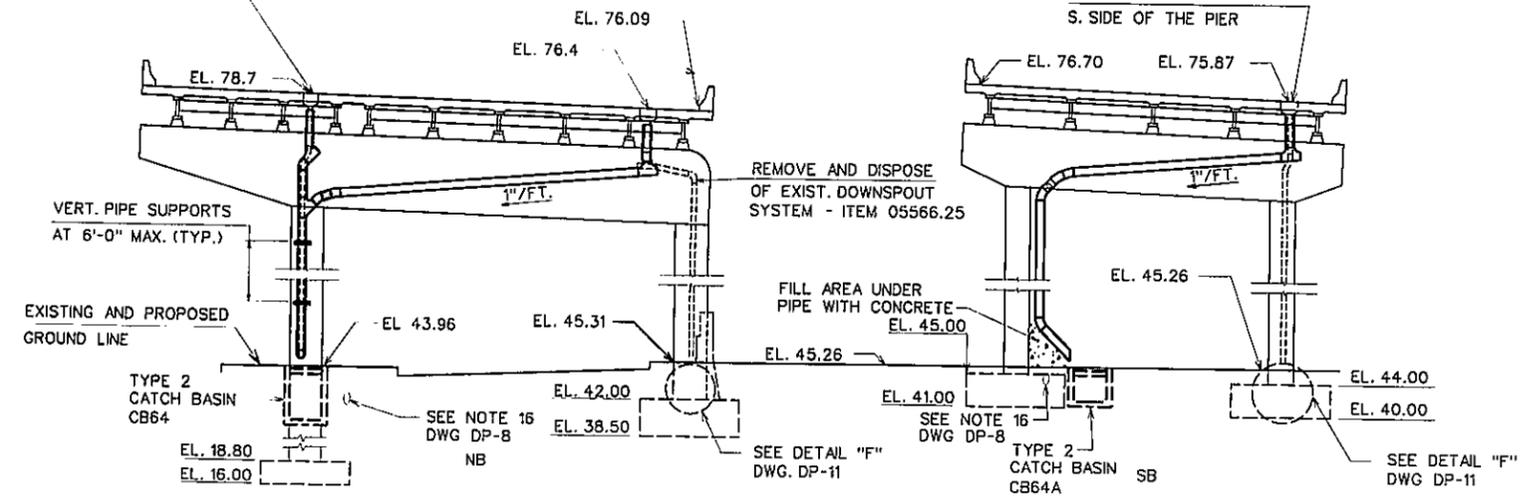
SEE SHEET DP-1 FOR APPROVAL SIGNATURE: _____
 BIN 1-06666-F
 BIN 1-06666-G
 BIN 1-06666-H

DOWNSPOUTING LAYOUT NOTES

1. FOR DRAINAGE PLANS SEE DWG. NOS. DP-1 TO DP-4.
2. PROVIDE VERTICAL PIPE SUPPORTS AT 6'-0" MAX. SPACING. PROVIDE HORIZONTAL PIPE SUPPORTS AT 5'-0" MAX. SPACING, UNLESS OTHERWISE NOTED. FOR SUPPORT DETAILS SEE DWG. NO. DP-9.
3. FOR DETAIL F SEE DWG. NO. DP-11
4. FOR DETAILS A SEE DWG. NO. DP-9
5. WHERE STRUCTURAL STEEL BETWEEN STRINGERS IS PROVIDED TO SUPPORT DOWNSPOUT SYSTEM, THE COST IS TO BE INCLUDED IN THE COST OF DOWNSPOUT SYSTEM (DUCTILE IRON) ITEM 566.2001.
6. FOR PURPOSES OF CLARITY, ELECTRICAL LINES ARE NOT SHOWN.
7. FOR LEGEND, SEE DWG. NO. DP-5
8. PIER CAPS AND COLUMNS ARE REINFORCED CONCRETE, UNLESS OTHERWISE NOTED.
9. THE TOP OF DECK ELEVATIONS INDICATED ON THIS DWG. REPRESENT TOP OF EXISTING DECK ELEVATIONS AT CENTER LINE OF THE PIER OR ABUTMENT AND ARE COMPUTED ACCORDING TO THE "AS BUILT" LONGITUDINAL PROFILES AND CROSS-SLOPES. ALL VERTICAL ELEVATION SHALL BE CHECKED IN THE FIELD.
10. GRADE ELEVATIONS SHOWN ON THIS DWG. REPRESENT EXISTING GRADE ELEVATIONS AT CENTER LINE OF THE PIER OR ABUTMENT ACCORDING TO "AS BUILT" SURFACE AND SUBSURFACE PLANS AND SHALL BE CHECKED IN THE FIELD.
11. 1"/FT. PIPE SLOPE IS A MINIMUM.
12. A VERTICAL CLEARANCE OF NOT LESS THAN 14.5 FT. SHALL BE PROVIDED AT TRAFFIC AREAS.
13. THE CONTRACTOR HAS THE OPTION OF PROPOSING A DIFFERENT COMBINATION OF STANDARD FITTINGS TO THE ENGINEER FOR APPROVAL. USE OF 90° ELBOWS IS PROHIBITED.
14. FLAT RUNS OF 12" DIAMETER PIPE SHALL BE SUPPORTED BY HANGERS SPACED NOT MORE THAN 5 FT. C.C..
15. THE MINIMUM LENGTH OF STRAIGHT SECTION OF PIPE SHALL BE 2 FT..
16. EXISTING IN GROUND CONDUIT WIRES & SERVICE BOXES FOR LIGHTING TO BE PROTECTED DURING CONSTRUCTION.



REPLACE GRATINGS ITEM 11566.0105 OR 11566.0205
 VERTICAL ADJUSTMENT OF BRIDGE DRAIN DEVICES
 ITEM 15566.91 OR 15566.92 (TYP.)



PIER 3-37
N. ELEV.

TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

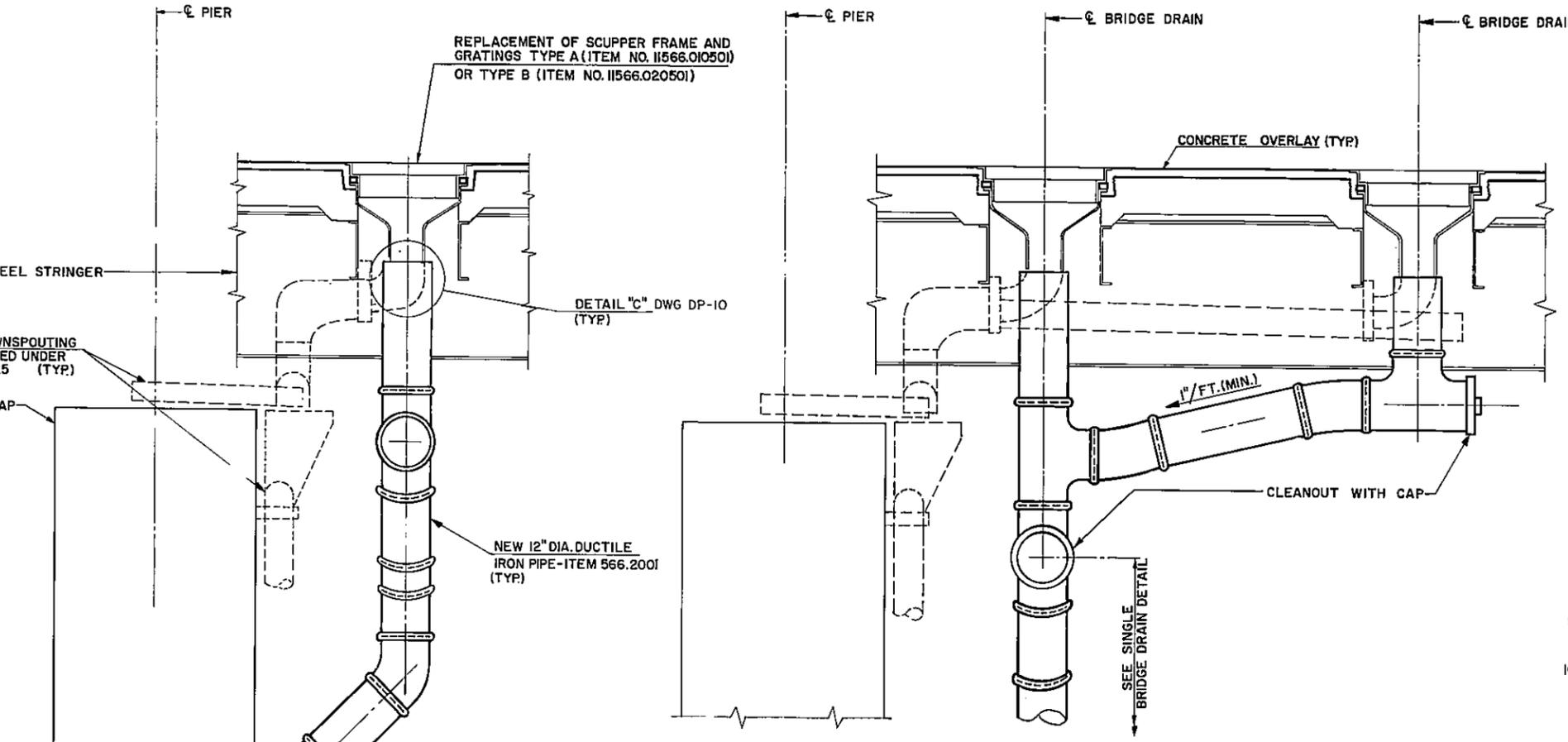
AS-BUILT REVISIONS			
1. For As Built Revision see dwg. No. 130R1			
 SIGNATURE		3-27-97 DATE	
DOWNSPOUTING LAYOUT IV			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
DRAWING NO. DP-8	SCALE 1"=10'-0"	DATE 8-29-94	REGION 11

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		13/11	199

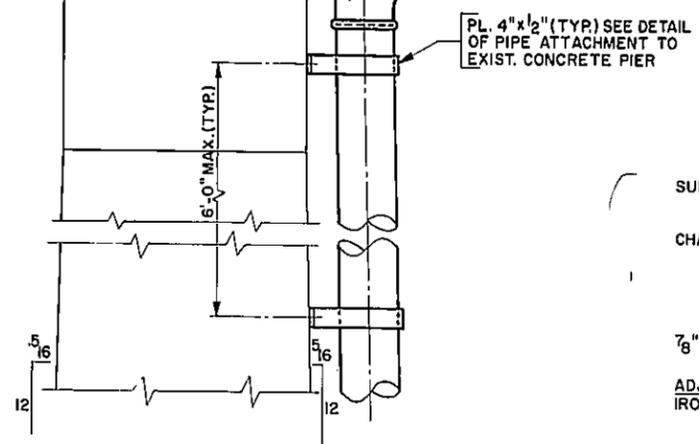
I-278 BRUCKNER EXPRESSWAY AND RAMPS
 REHABILITATION AT SHERIDAN INTERCHANGE
 PIN X730.28 BIN I-06666-9
 BIN I-06666-F
 BIN I-06666-G
 BIN I-06666-H

NOTES:

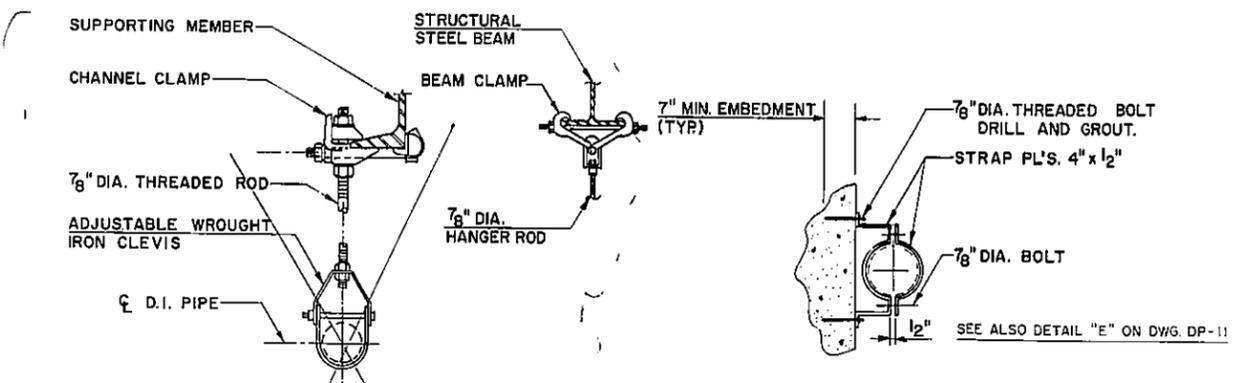
- REMOVAL AND DISPOSAL OF EXISTING DOWNSPOUTING SYSTEM PAID UNDER PRICE BID FOR ITEM 05566.25 "REMOVE AND DISPOSE OF DOWNSPOUT SYSTEM"
- INSTALLATION OF NEW DOWNSPOUT SYSTEM PAID FOR UNDER ITEM 566.2001 "DOWNSPOUT SYSTEM (DUCTILE IRON)" INCLUDES ALL REQUIRED SUPPORT MEMBERS.
- ALL NEW DOWNSPOUTING IS 12" DIA.
- FOR LAYOUTS OF NEW DOWNSPOUTS, SEE DWG. NOS. DP-5 THRU DP-8.
- FOR NEW GRATING AND FRAME DETAILS, SEE DWG. NO. DP-12
- THE DOWNSPOUT LAYOUT AND DETAILS SHOWN ON DWG. NOS. DP-5 THRU DP-11 ARE GENERAL AND INDICATIVE OF THE ARRANGEMENT AND MATERIALS TO BE EMPLOYED FOR DOWNSPOUT PIPING. ACTUAL DETAILS EMPLOYED AT EACH LOCATION WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- DUCTILE IRON PIPE SHALL CONFORM TO ASTM A377 (ANSI 21.51) CLASS 56.
- PAINTING OF NEW DOWNSPOUTING SHALL BE PAID FOR UNDER ITEM 1857039 SHOP APPLIED STRUCTURAL STEEL PAINT SYSTEM.
- INSIDE SURFACES OF SCUPPERS TO BE PAINTED WITH TWO COATS OF COAL TAR EPOXY COATING. PAYMENT SHALL BE INCLUDED IN ITEMS 11566.00501 & 11566.020501
- FOR DETAIL "C" SEE DWG. NO. DP-10.



TYPICAL DOWNSPOUTING (DOUBLE BRIDGE DRAINS)
 SCALE: 3/4" = 1'-0"



TYPICAL DOWNSPOUTING (SINGLE BRIDGE DRAINS)
 SCALE: 3/4" = 1'-0"



DETAIL "A" PIPE HANGER
 N.T.S.

PIPE ATTACHMENT TO EXISTING CONCRETE PIER *
 N.T.S.

* AT STEEL GIRDERS THE STRAP SHALL BE FIELD WELDED TO GIRDER WEB BY MEANS OF 5/16" X 4" FILLET WELD AT EACH END OF STRAP.

AS - BUILT REVISIONS	
1. Detail "A" Revised As Per No. 132R1	
<i>Carl Anderson</i>	3-27-97
SIGNATURE	DATE

DOWNSPOUTING DETAILS I
 STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
DP-9	AS SHOWN	12-29-92	11

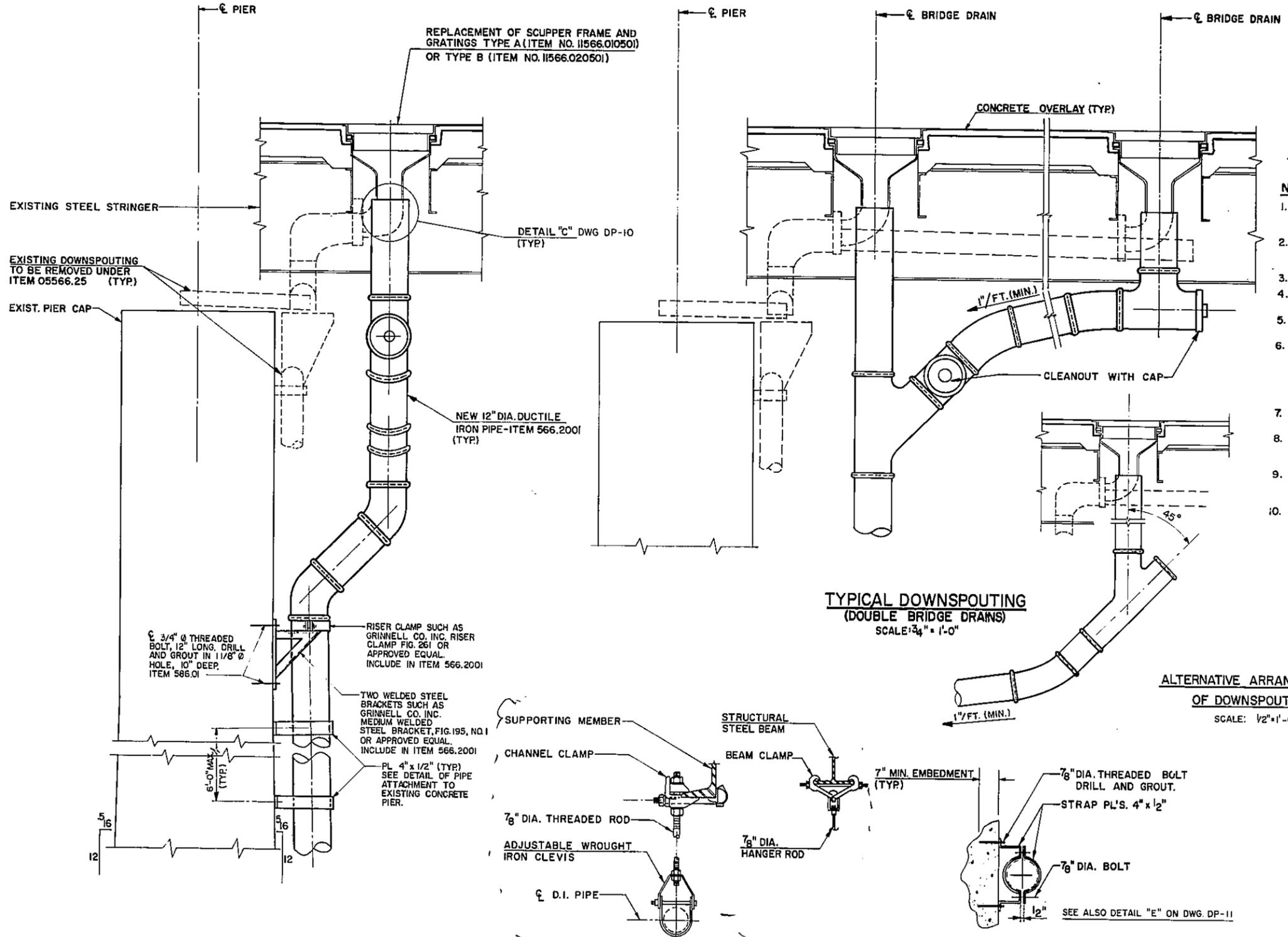
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 CHECKED BY _____
 DRAFTED BY _____
 MN _____
 IS _____
 ESTIMATED BY _____
 MI _____
 CHECKED BY _____
 IS _____
 DESIGNED BY _____
 RLA _____
 IN CHARGE OF _____

FED. ROAD REQ. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		131 F1/199	
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28		BIN I-06666-9		
		BIN I-06666-F		
		BIN I-06666-G		
		BIN I-06666-H		

SEE SHEET 2F1 FOR APPROVAL SIGNATURE.

NOTES:

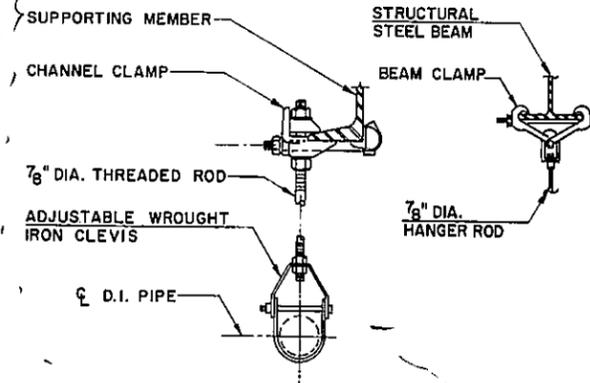
1. REMOVAL AND DISPOSAL OF EXISTING DOWNSPOUTING SYSTEM PAID UNDER PRICE BID FOR ITEM 05566.25 "REMOVE AND DISPOSE OF DOWNSPOUT SYSTEM".
2. INSTALLATION OF NEW DOWNSPOUT SYSTEM PAID FOR UNDER ITEM 566.2001 "DOWNSPOUT SYSTEM (DUCTILE IRON)" INCLUDES ALL REQUIRED SUPPORT MEMBERS.
3. ALL NEW DOWNSPOUTING IS 12" DIA.
4. FOR LAYOUTS OF NEW DOWNSPOUTS, SEE DWG. NOS. DP-5 THRU DP-8.
5. FOR NEW GRATING AND FRAME DETAILS, SEE DWG. NO. DP-12
6. THE DOWNSPOUT LAYOUT AND DETAILS SHOWN ON DWG. NOS. DP-5 THRU DP-11 ARE GENERAL AND INDICATIVE OF THE ARRANGEMENT AND MATERIALS TO BE EMPLOYED FOR DOWNSPOUT PIPING. ACTUAL DETAILS EMPLOYED AT EACH LOCATION WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. DUCTILE IRON PIPE SHALL CONFORM TO ASTM A377 (ANSI 21.51) CLASS 56.
8. PAINTING OF NEW DOWNSPOUTING SHALL BE PAID FOR UNDER ITEM 18570.39 SHOP APPLIED STRUCTURAL STEEL PAINT SYSTEM.
9. INSIDE SURFACES OF SCUPPERS TO BE PAINTED WITH TWO COATS OF COAL TAR EPOXY COATING. PAYMENT SHALL BE INCLUDED IN ITEMS 11566.00501 & 11566.020501
10. FOR DETAIL "C" SEE DWG. NO. DP-10.



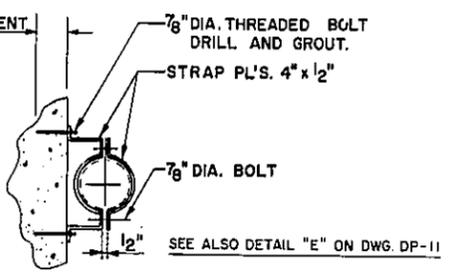
TYPICAL DOWNSPOUTING (SINGLE BRIDGE DRAINS)
SCALE: 3/4" = 1'-0"

TYPICAL DOWNSPOUTING (DOUBLE BRIDGE DRAINS)
SCALE: 3/4" = 1'-0"

ALTERNATIVE ARRANGEMENT OF DOWNSPOUTING
SCALE: 1/2" = 1'-0"



DETAIL "A" PIPE HANGER
N.T.S.



PIPE ATTACHMENT TO EXISTING CONCRETE PIER *
N.T.S.

* AT STEEL GIRDERS THE STRAP & SHALL BE FIELD WELDED TO GIRDER WEB BY MEANS OF 5/16" X 4" FILLET WELD AT EACH END OF STRAP.

AS - BUILT REVISIONS			
1. Downspout System Installed As Per Detail on Dwg. Sheet No. 131R1			
<i>Luigi P...</i>		3-27-97	
SIGNATURE		DATE	
DOWNSPOUTING DETAILS I			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
DRAWING NO.	SCALE	DATE	REGION
DP-9	AS SHOWN	8-29-1994	11

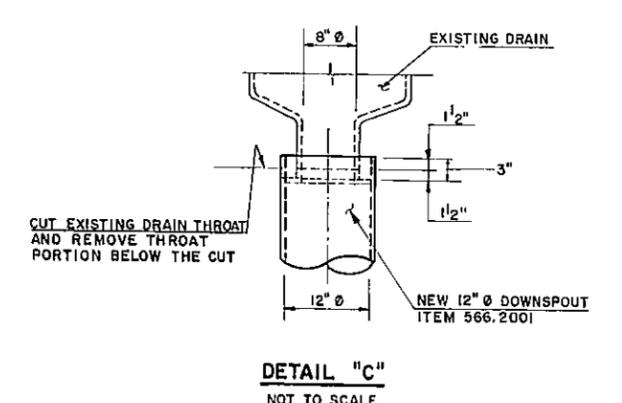
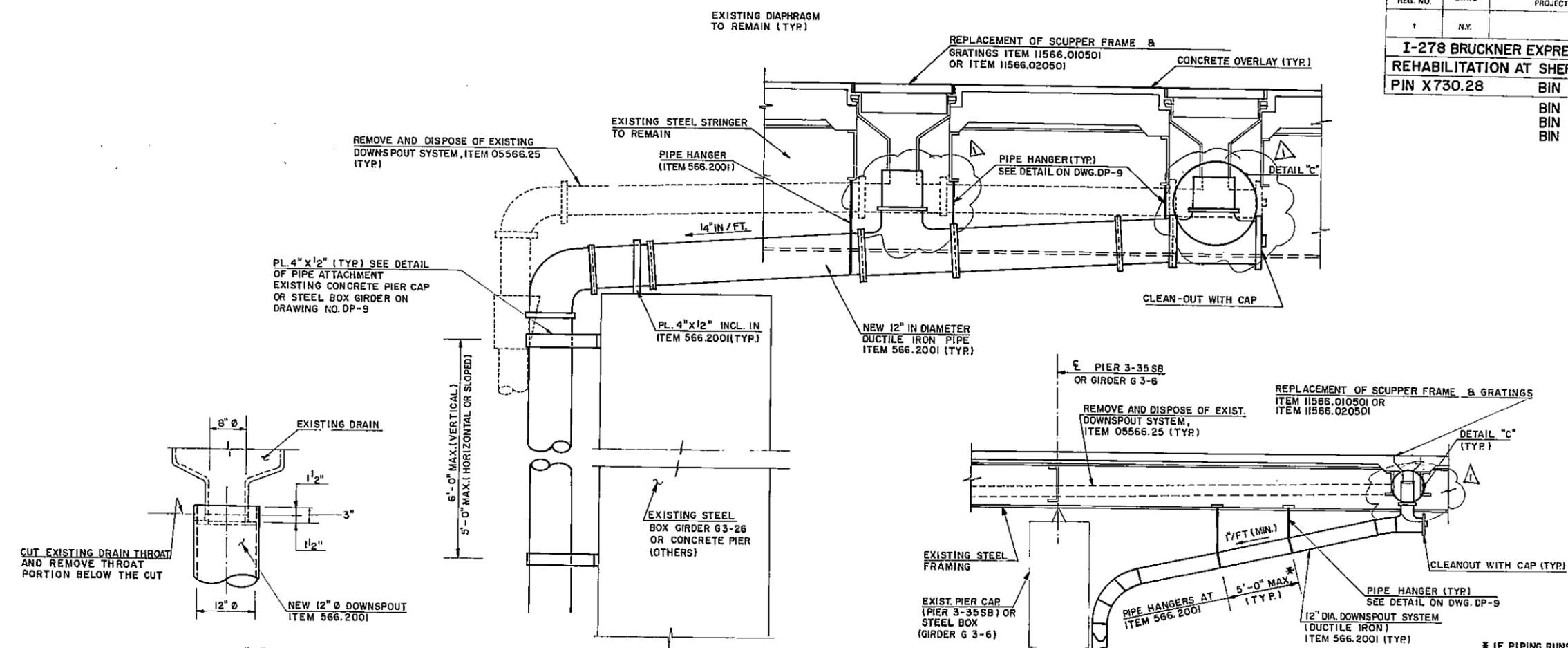
DATE 7-13-1994
 CHECKED BY DK
 ES
 DRAFTED BY DK
 CHECKED BY HL
 ESTIMATED BY HL
 CHECKED BY J.S.
 DESIGNED BY R.L.A.
 IN CHANGE OF

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		132R	199

I-278 BRUCKNER EXPRESSWAY AND RAMPS REHABILITATION AT SHERIDAN INTERCHANGE
 PIN X730.28 BIN I-06666-9

BIN I-06666-F
 BIN I-06666-G
 BIN I-06666-H

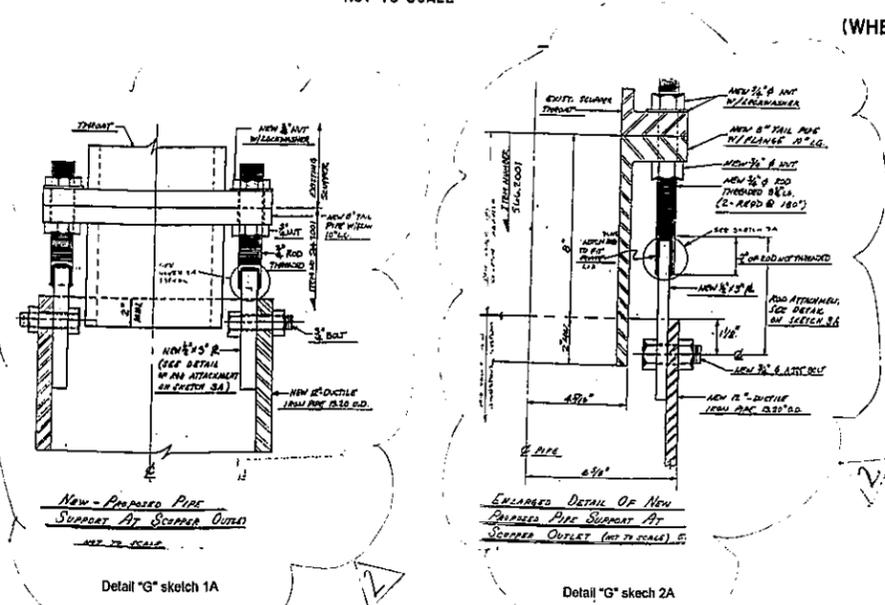
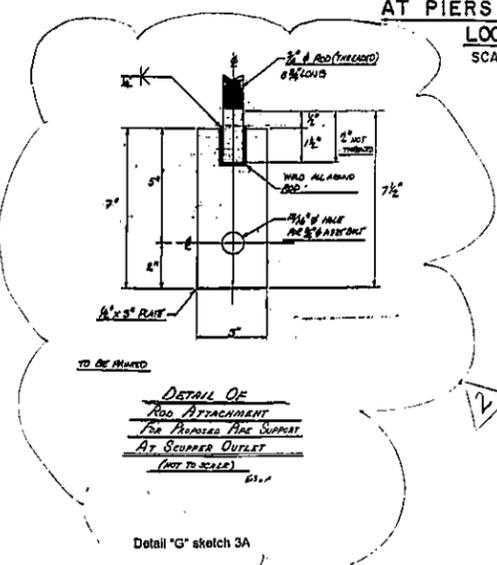
DATE _____ CHECKED BY _____ B.M. _____
 DRAFTED BY _____ N.H. _____
 M.W. _____
 15 _____
 ESTIMATED BY _____
 15 _____
 CHECKED BY _____ M.R. _____
 15 _____
 DESIGNED BY _____ R.L.A. _____
 IN CHARGE OF _____



DOWNSPOUTING DETAIL
 (WHERE PIPING CROSSES TOP OF PIER CAP)
 SCALE: 3/4" = 1'-0"

- PIER 3-23 SB
 - 3-26 NB
 - 3-28 SB AS SHOWN
 - 3-33 SB
 - 3-37 SB
- PIER 3-20 RAMP M
- 3-26 SB SIMILAR BUT WITH ONLY ONE DRAIN (CLOSEST TO THE PIER CAP)
- 3-31 RAMP N
- 3-34 RAMP N

DOWNSPOUTING DETAIL-LONGITUDINAL SECTION AT PIERS G 3-6 AND 3-35 SB
 LOOKING WEST
 SCALE: 1/4" = 1'-0"



* IF PIPING RUNS DIAGONALLY MAXIMUM SPACING OF SUPPORTS BETWEEN ADJACENT STRINGERS IS 10'-0".

AS - BUILT REVISIONS

- Detail "G" New Scupper Attachment
- Added Detail For Pipe Support of Scupper Outlet

Eul' Kundera 3-28-97
 SIGNATURE DATE

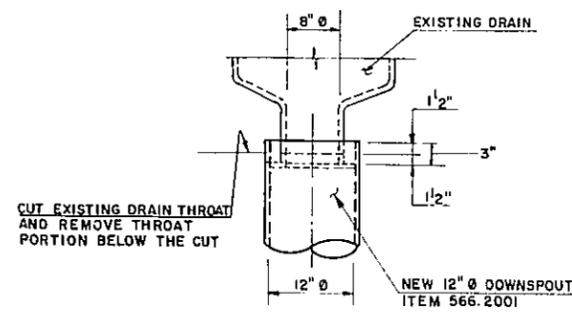
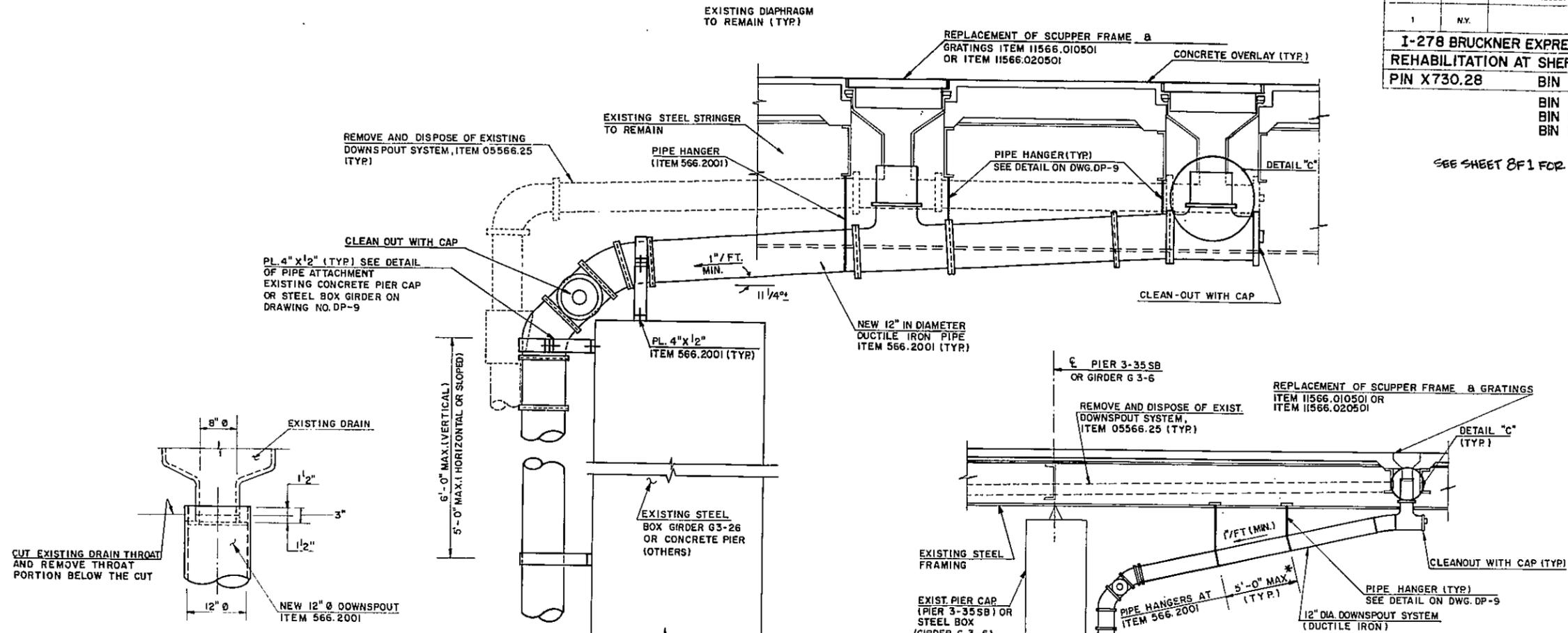
DOWNSPOUTING DETAILS II

STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-10	SCALE AS SHOWN	DATE 12-29-92	REGION 11
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FED. ROAD REG NO	STATE	FEDERAL AID PROJECT NO	SHEET NO	TOTAL SHEETS
1	N.Y.		132F10/99	
I-278 BRUCKNER EXPRESSWAY AND RAMP				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28		BIN I-06666-9		
		BIN I-06666-F		
		BIN I-06666-G		
		BIN I-06666-H		

SEE SHEET 8F1 FOR APPROVAL SIGNATURE.



DOWNSPOUTING DETAIL
(WHERE PIPING CROSSES TOP OF PIER CAP)
SCALE: 3/4" = 1'-0"

- PIER 3-23 SB
- 3-26 NB
- 3-28 SB AS SHOWN
- 3-33 SB
- 3-37 SB
- 3-4

- PIER 3-20 RAMP M
 - 3-26 SB
 - 3-31 RAMP N
 - 3-34 RAMP N
 - 3-3
 - 3-9
- SIMILAR BUT WITH ONLY ONE DRAIN (CLOSEST TO THE PIER CAP)

DOWNSPOUTING DETAIL-LONGITUDINAL SECTION
AT PIERS G 3-6 AND 3-35 SB
LOOKING WEST
SCALE: 1/4" = 1'-0"

* IF PIPING RUNS DIAGONALLY
MAXIMUM SPACING OF SUPPORTS
BETWEEN ADJACENT STRINGERS
IS 10'-0".

AS - BUILT REVISIONS

- Downspout System Installed As Per Detail on Sheet No. 132R1

Eric Rinderson 3-28-97
SIGNATURE DATE

DOWNSPOUTING DETAILS II

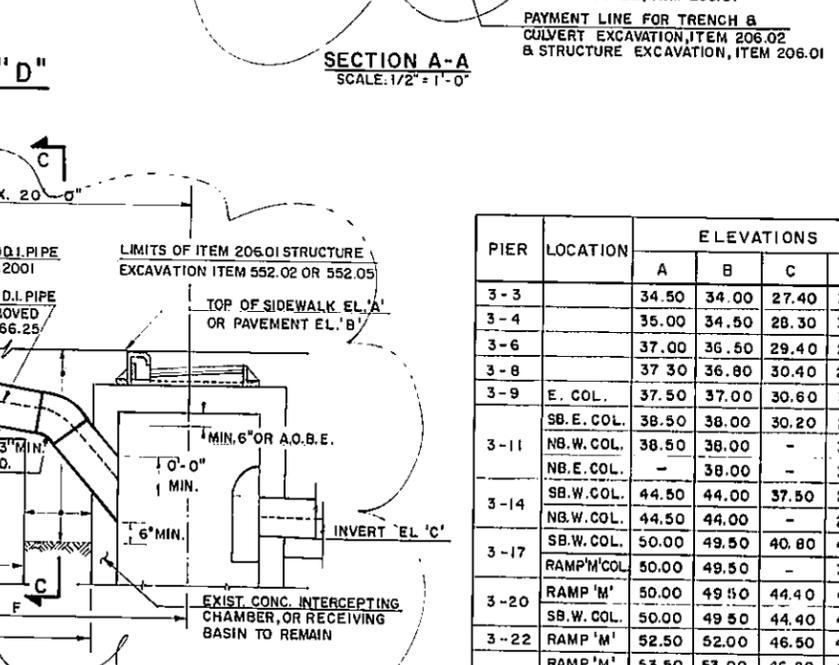
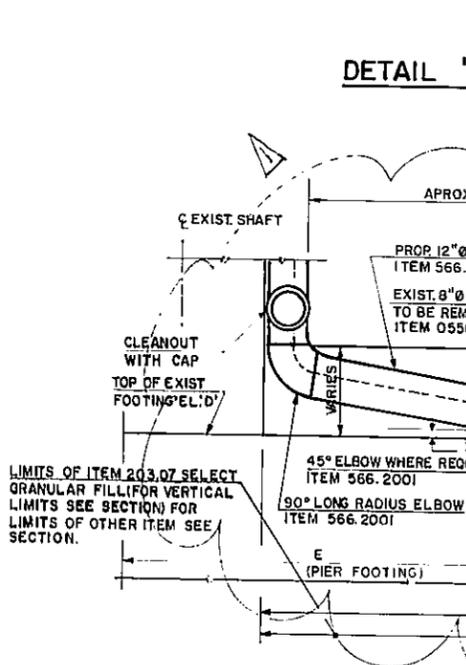
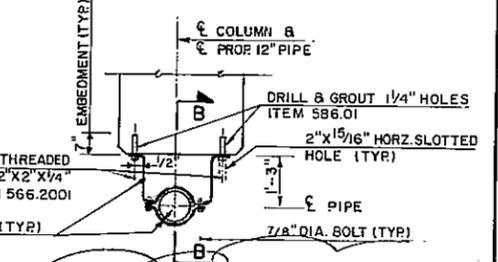
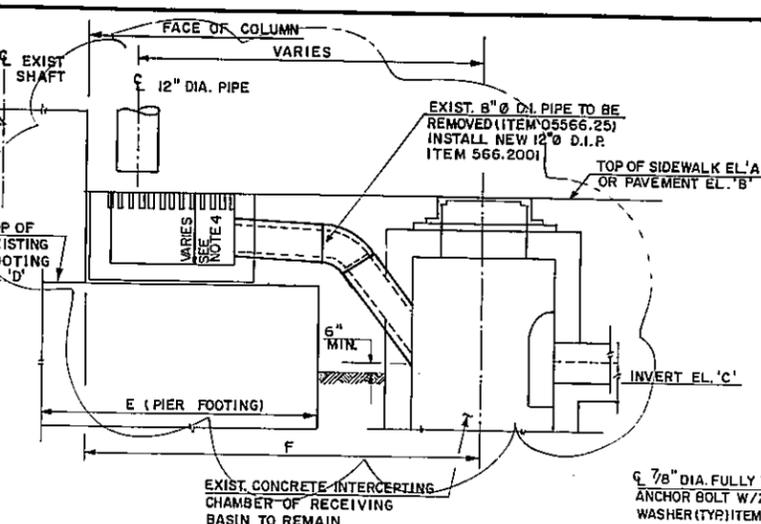
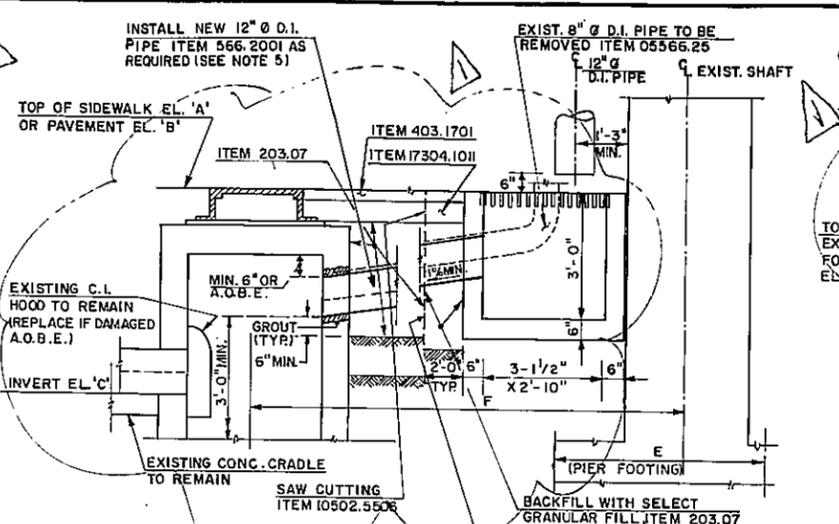
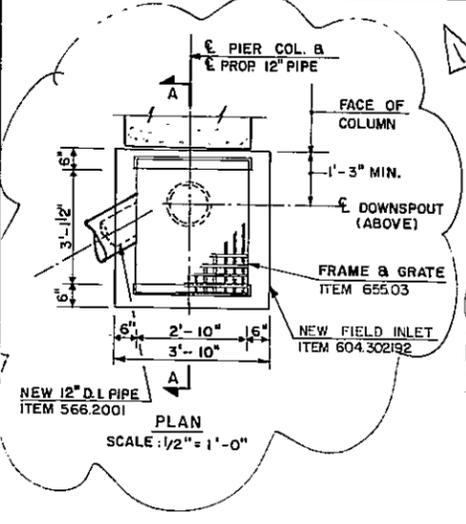
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO	SCALE	DATE	REGION
DP-10	AS SHOWN	8-29-99	11

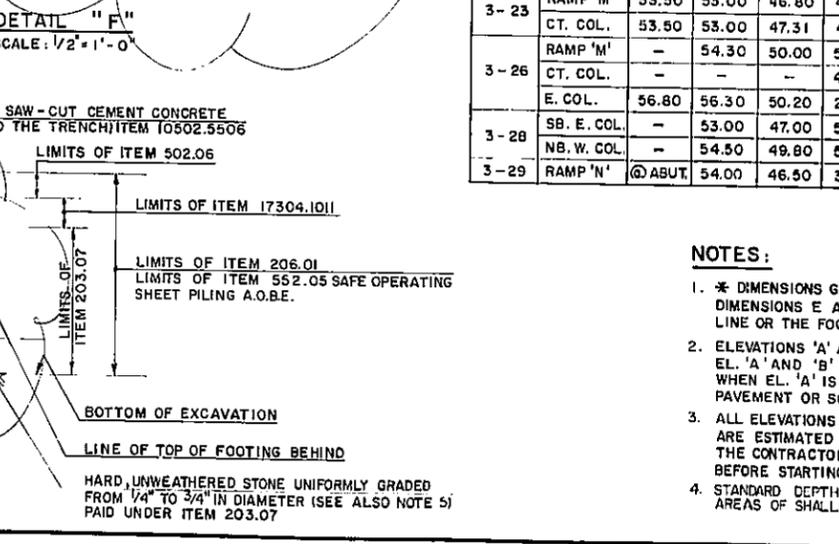
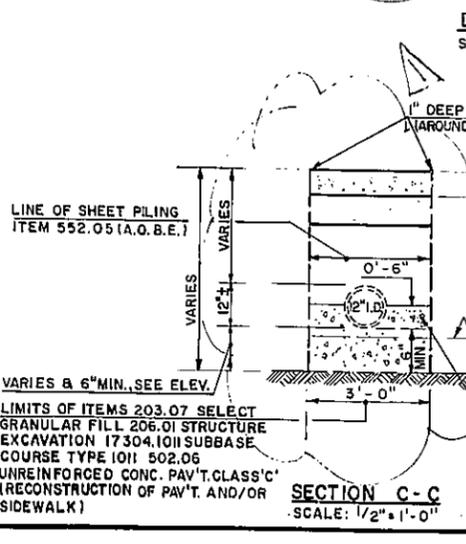
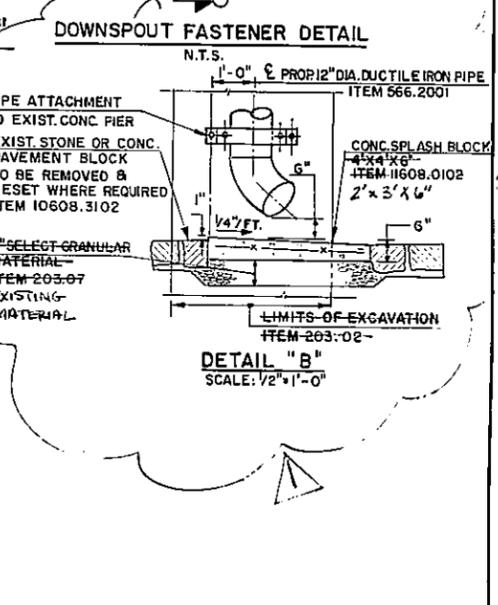
DATE 7-12-1994
 CHECKED BY DK
 ES
 DRAFTED BY DK
 HL
 ESTIMATED BY HL
 JS
 DESIGNED BY RL A
 IN CHARGE OF

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		133R	199

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE**
PIN X730.28 BIN I-06666 - 9
BIN I-06666 - F
BIN I-06666 - G
BIN I-06666 - H



PIER	LOCATION	ELEVATIONS						DIMENSIONS						
		A	B	C	D	E	F	A	B	C	D	E	F	
3-3		34.50	34.00	27.40	32.00	18.00	16.00							
3-4		35.00	34.50	28.30	31.40	14.00	12.00*							
3-6		37.00	36.50	29.40	28.30	18.00	18.00							
3-8		37.30	36.80	30.40	29.10	18.00	11.50							
3-9	E. COL.	37.50	37.00	30.60	33.50	13.00	13.50							
	SB. E. COL.	38.50	38.00	30.20	25.70	15.00	10.50							
3-11	NB. W. COL.	38.50	38.00	-	32.00	12.00	-							
	NB. E. COL.	-	38.00	-	31.00	12.00	-							
3-14	SB. W. COL.	44.50	44.00	37.50	28.00	14.00	8.50							
	NB. W. COL.	44.50	44.00	-	27.80	14.50	-							
3-17	SB. W. COL.	50.00	49.50	40.80	40.00	12.00	14.00							
	RAMP 'M' COL.	50.00	49.50	-	38.70	12.00	-							
3-20	RAMP 'M'	50.00	49.50	44.40	41.00	16.00	15.00							
	SB. W. COL.	50.00	49.50	44.40	41.00	17.00	15.00							
3-22	RAMP 'M'	52.50	52.00	46.50	43.00	14.00	11.00							
3-23	RAMP 'M'	53.50	53.00	46.80	41.00	14.00	7.00							
	CT. COL.	53.80	53.00	47.31	41.00	17.00	16.00							
3-26	RAMP 'M'	-	54.30	50.00	52.00	11.00	4.50							
	CT. COL.	-	-	-	47.50	18.00	-							
	E. COL.	56.80	56.30	50.20	23.00	15.00	8.50							
3-28	SB. E. COL.	-	53.00	47.00	50.50	15.00	11.50							
	NB. W. COL.	-	54.50	49.80	52.00	15.00	17.50							
3-29	RAMP 'N'	54.00	46.50	33.00	17.00	8.50	8.50							
	NB-SB	ABUT.	-	26.00	20.50	20.50	14.00	10.60						



NOTES:

- * DIMENSIONS GIVEN PARALLEL TO L OF PIER. ALL OTHER DIMENSIONS E AND F ARE GIVEN ON THE DIRECTION OF STA. LINE OR THE FOOTING SIDE PARALLEL TO IT.
- ELEVATIONS 'A' AND 'B' GIVEN AT COLUMN. WHEN BOTH EL. 'A' AND 'B' ARE GIVEN EL. 'B' WAS ASSUMED 6" LOWER. WHEN EL. 'A' IS NOT GIVEN, EL. 'B' REPRESENTS TOP OF PAVEMENT OR SOIL (SEE DRAINAGE PLANS).
- ALL ELEVATIONS AND DIMENSIONS SHOWN IN THE TABLE ARE ESTIMATED USING THE "AS BUILT" DRAWINGS AND THE CONTRACTOR SHALL CHECK THEM IN THE FIELD BEFORE STARTING CONSTRUCTION.
- STANDARD DEPTH OF FIELD INLET (3'-0") TO BE ADJUSTED IN AREAS OF SHALLOW FOOTINGS.
- SEE "SEWER DESIGN STANDARDS" BOOK OF N.Y.C.D. E.P. BUREAU OF SEWERS, PAGE 47 FOR 12" D.I.P. INSTALLATION, MATERIALS AND JOINTS, AND PAGE 29 FOR HOOD IN CATCH BASINS.

AS - BUILT REVISIONS

1. Revised Detail

Handwritten Signature 3-28-97
SIGNATURE DATE

DOWNSPOUTING DETAILS III

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
DP-11	AS SHOWN	12-29-92	11

CHECKED BY: D.K. DATE: _____
 CHECKED BY: N.H. DATE: _____
 DRAFTED BY: _____
 CHECKED BY: A.P. DATE: _____
 ESTIMATED BY: A.P. DATE: _____
 CHECKED BY: J.S./A.P. DATE: _____
 DESIGNED BY: R.L.A. DATE: _____
 IN CHARGE OF: _____ DATE: _____

HC 47-26 (5/98)

D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NY		133 F1	199

I-278 BRUCKNER EXPRESSWAY AND RAMP REHABILITATION AT TRIBOROUGH INTERCHANGE
 PIN X730.28 BIN I-06666 -9

BIN I-06666 - F
 BIN I-06666 - G
 BIN I-06666 - H

SEE SHEET 2F1 FOR APPROVAL SIGNATURE.

DOWNSPOUT FASTENER DETAIL
N.T.S.

REFERENCES

- A. NEW YORK CITY, DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF SEWERS, DIVISION OF SEWER DESIGN, SEWER DESIGN STANDARDS AS MODIFIED, OCTOBER 5, 1993.
- NO. 27 - STANDARD CAST IRON FRAME FOR CATCH BASINS AND INLETS WITHOUT CURB PIECE.
- NO. 25 - STANDARD CATCH BASIN - TYPE 2 (N.Y.C.)
- NO. 42 - STANDARD CATCH BASIN - TYPE 3 (N.Y.C.)
- NO. 29 - STANDARD CAST IRON HOOD AND HOOKS FOR CATCH BASINS
- NO. 12 - MANHOLE STANDARDS FOR 8" DIAMETER TO 33" DIAMETER PIPE SEWERS
- NO. 20 - STANDARD CAST IRON MANHOLE FRAME AND COVER
- B. RESTORATION OF EXISTING SIDEWALK AND CURBS TO CONFORM TO THE NYC, DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS, STANDARD DETAILS OF CONSTRUCTION, FIFTH EDITION, REVISED TO NOV. 1991.

AS - BUILT REVISIONS

1. For As Built Revisions see dwg. No. 133R1

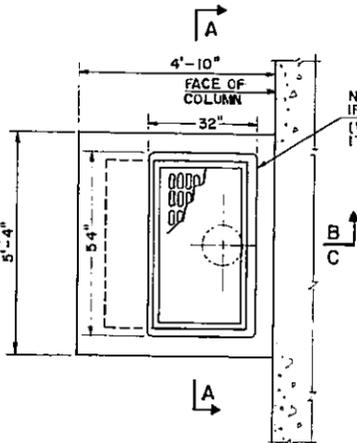
Kurt Rudman
SIGNATURE
 7-28-97
DATE

DOWNSPOUTING DETAILS III

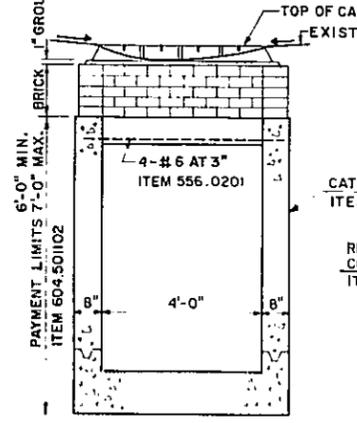
STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

DRAWING NO DP-11	SCALE 1/2" = 1'-0"	DATE 8-29-1994	REGION 11
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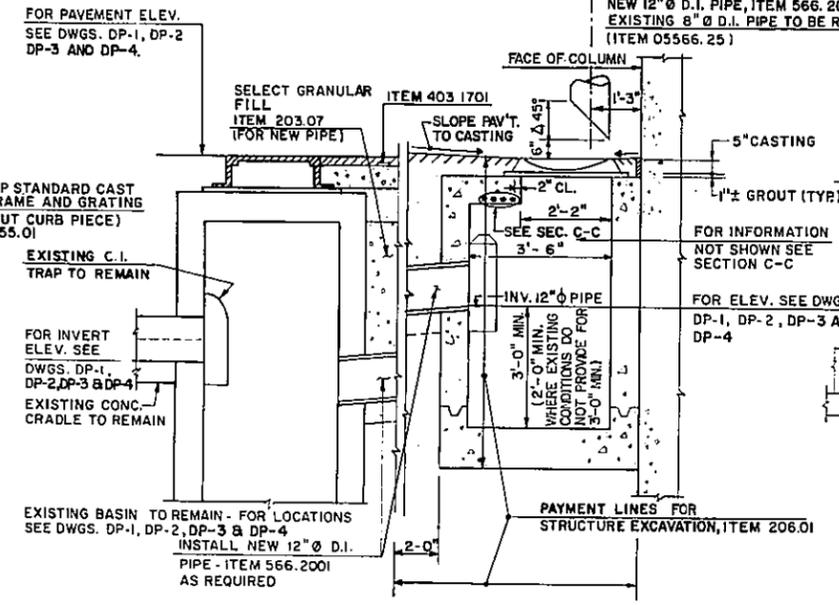
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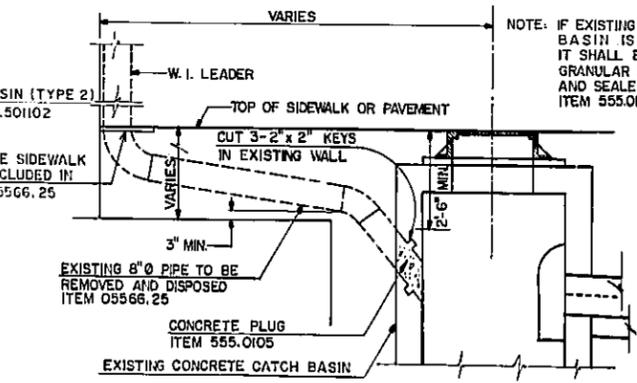
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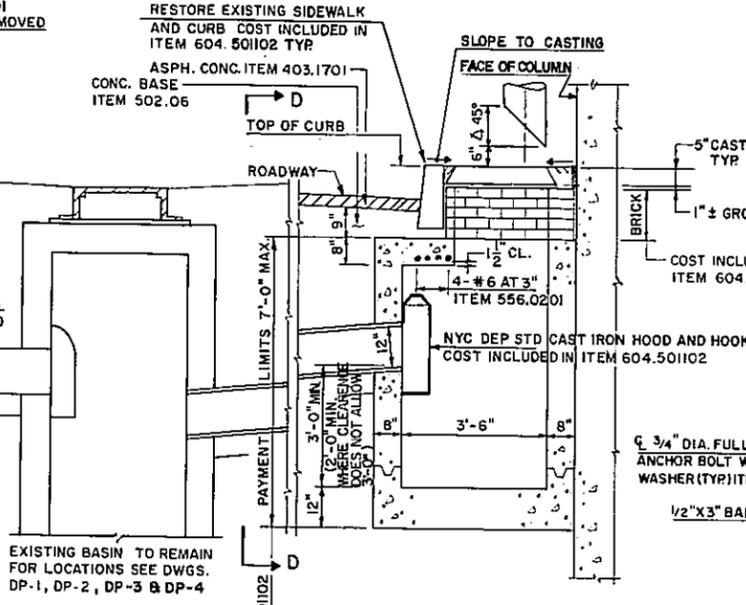
SECTION A-A



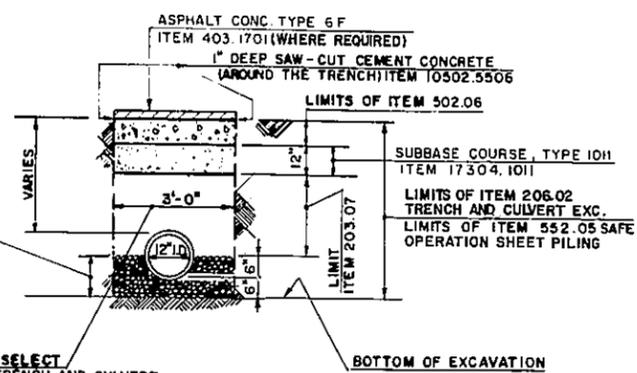
SECTION B-B



DETAIL 'F'



SECTION C-C



SECTION D-D

NOTES:

1. FOR PIER ELEVATIONS, SEE DWGS. DP-5, DP-6, DP-7 AND DP-8.
2. WHEN THERE IS NO EXISTING PAVEMENT AND/OR SIDEWALK ITEMS 403.1701, 17304.1011 AND 502.06 SHALL BE REPLACED WITH ITEM 203.07. ITEM 10502.5506 SHALL BE ELIMINATED IN THIS CASE.
3. SEE "SEWER DESIGN STANDARDS" BOOK OF N.Y.C. D.E.P., BUREAU OF SEWERS, PAGE 47, FOR 12" D.I.P. INSTALLATION MATERIALS AND JOINTS AND PAGE 29 FOR HOOD IN CATCH BASINS.
4. THE CONTRACTOR SHALL VIDEOTAPE ALL NEW DRAINAGE PIPES, CONNECTED TO EXISTING BASINS, OTHER EXISTING PIPE CONNECTIONS AT THESE BASINS SHALL ALSO BE VIDEOTAPE, BOTH BEFORE START OF CONSTRUCTION AND AFTER COMPLETION OF CONSTRUCTION. VIDEOTAPES SHALL BE TURNED OVER TO THE E.I.C. COST SHALL BE INCLUDED IN THE COST OF ITEM 604.501102
5. MANHOLE FRAMES AND COVERS TO BE PAID FOR UNDER ITEM 655.01 - SEE REFERENCE NO. 20, THIS SHEET.
6. THIS PLAN SHEET IS REVISED TO SUPERSEDE DWG. DP-11, DATED 12-29-92 OF CONSTRUCTION CONTRACT D254615.

LIMITS OF ITEMS 203.07 SELECT GRANULAR FILL 206.02-TRENCH AND CULVERT EXCAVATION 17304.1011 SUBBASE COURSE TYPE 10H 502.06 UNREINFORCED CONC. PAV'T. CLASS 'C' (RECONSTRUCTION OF PAV'T. AND/OR SIDEWALK).

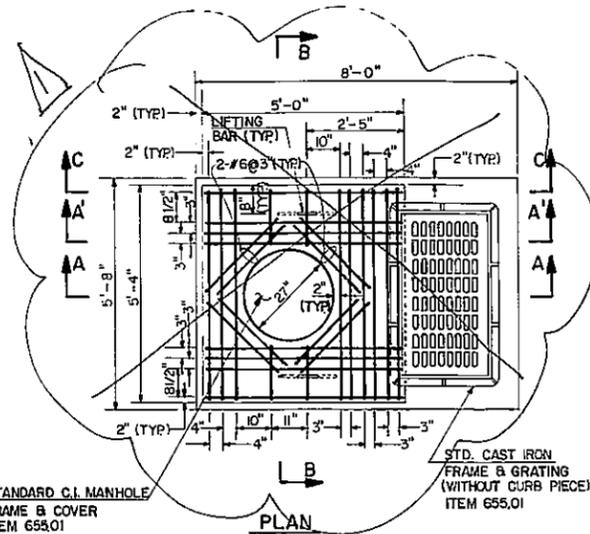
D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		133 F2/199	

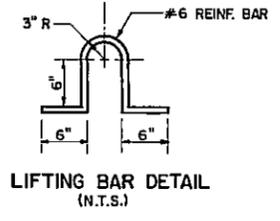
I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE
PIN X730.28 BIN 1-06666-9

SEE SHEET 8F1 FOR APPROVAL SIGNATURE.
THIS SHEET SUPPLEMENTS SHEET NUMBER 133F1.

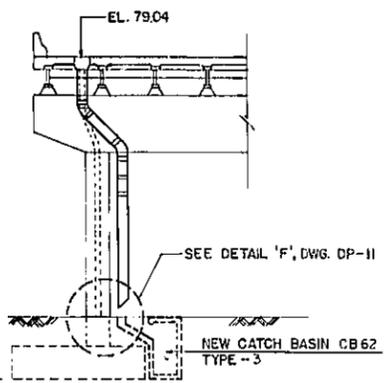
FACE OF EXISTING ABUTMENT OR COLUMN
BIN 1-06666-F
BIN 1-06666-G
BIN 1-06666-H



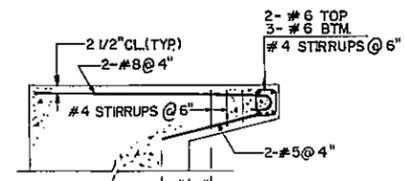
NEW CATCH BASIN - TYPE 3
SCALE: 1/2" = 1'-0"



LIFTING BAR DETAIL (N.T.S.)



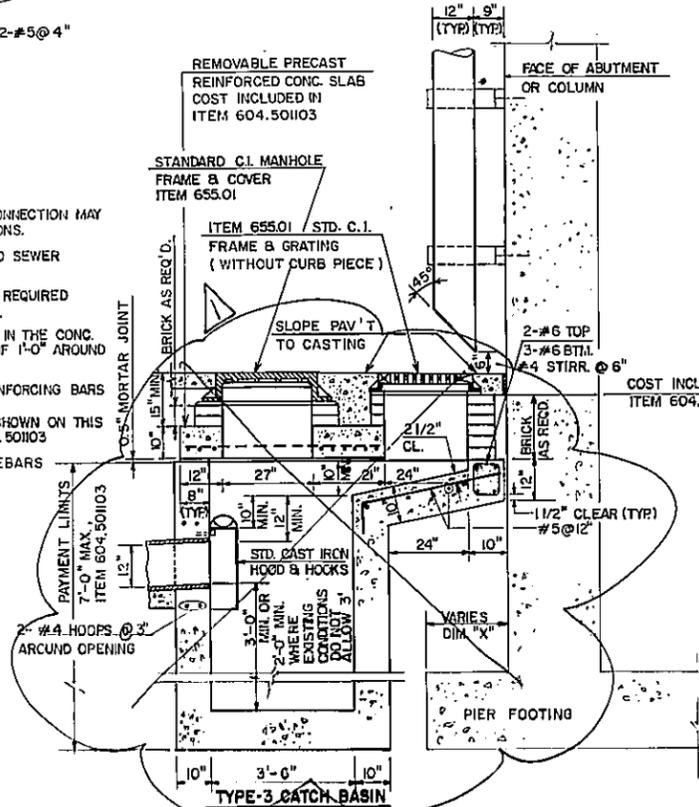
PIER 3-35 SB ROADWAY
N. ELEV.
SCALE: 1" = 10'-0"



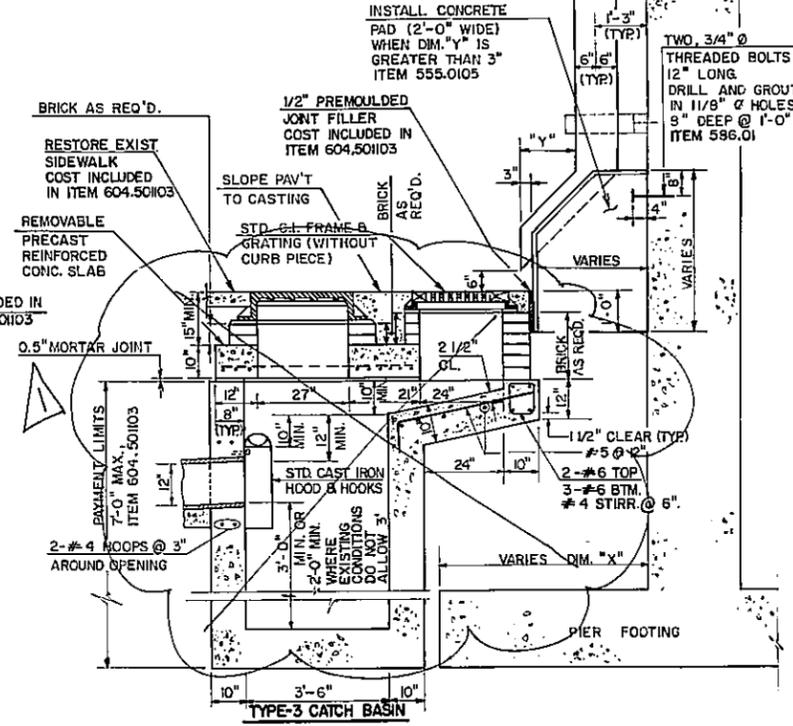
SECTION C-C (N.T.S.)

NOTES:

LOCATION AND ANGLE OF BASIN CONNECTION MAY BE VARIED TO SUIT FIELD CONDITIONS.
THE MINIMUM DROP FROM BASIN TO SEWER SHALL BE 6".
KEYED CONSTRUCTION JOINTS ARE REQUIRED BETWEEN ANY SUCCESSIVE POURS.
EXPANSION JOINTS ARE REQUIRED IN THE CONC. SIDEWALK AREA AT A DISTANCE OF 1'-0" AROUND THE PERIMETER OF THE BASIN.
ALL REINFORCEMENT IS #6 REINFORCING BARS UNLESS OTHERWISE SHOWN.
COST OF ALL REINFORCEMENT SHOWN ON THIS SHEET IS INCLUDED IN ITEM 604.50103
CONCRETE IS TO BE CLASS 40 REBARS GRADE 60.



SECTION A-A
TYPICAL DETAIL FOR LOCATIONS WHERE DIM. "X" IS 34" OR LESS
SCALE: 1/2" = 1'-0"



SECTION A-A
TYPICAL DETAIL FOR LOCATIONS WHERE DIM. "X" IS GREATER THAN 34"
SCALE: 1/2" = 1'-0"

AS - BUILT REVISIONS	
1. Work Deleted From Contract	
<i>W. L. ...</i>	8-27-97
SIGNATURE	DATE
DOWNSPOUTING DETAILS IV	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
DRAWING NO. DP-12	SCALE AS SHOWN
DATE 8-29-1994	REGION 11

IN CHARGE OF R.L.A. DESIGNED BY J.S. ESTIMATED BY H.L. CHECKED BY H.L. DRAFTED BY D.K. CHECKED BY E.S. DATE 7-13-1994

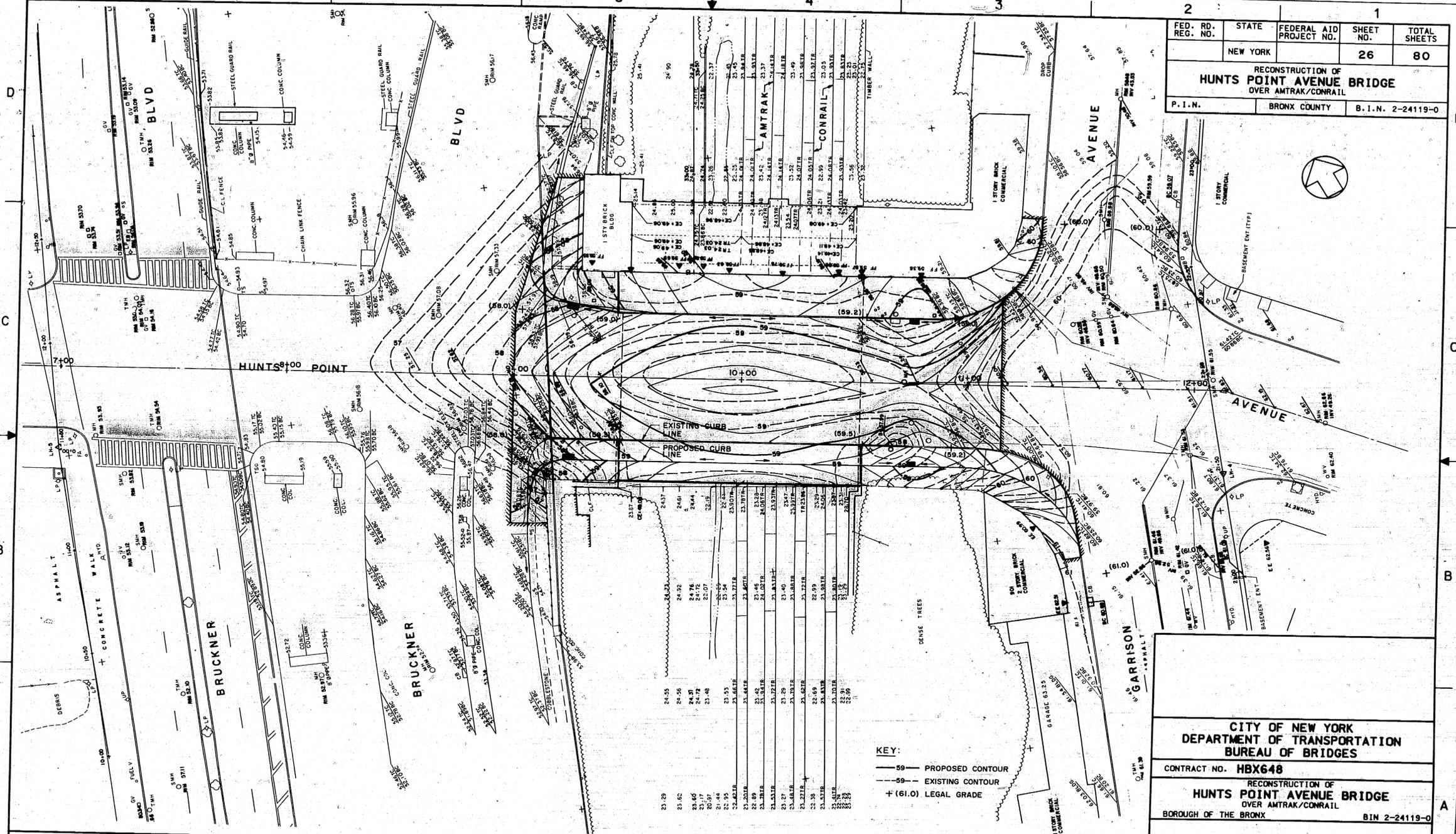
BLAUVELT INTERGRAPH SYSTEM
WASHOFFBOARDER

Appendix H – As-Built Record for Contract HBX648

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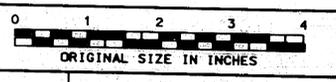


FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK		26	80
RECONSTRUCTION OF HUNTS POINT AVENUE BRIDGE OVER AMTRAK/CONRAIL				
P. I. N.		BRONX COUNTY B. I. N. 2-24119-0		

KEY:
 -59- PROPOSED CONTOUR
 -59- EXISTING CONTOUR
 + (61.0) LEGAL GRADE

CITY OF NEW YORK
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF BRIDGES
 CONTRACT NO. HBX648
 RECONSTRUCTION OF
HUNTS POINT AVENUE BRIDGE
 OVER AMTRAK/CONRAIL
 BOROUGH OF THE BRONX B1N 2-24119-0

HARDESTY & HANOVER
 CONSULTING ENGINEERS
 NEW YORK, N. Y.



CONSULTANT **HARDESTY & HANOVER**
 IN CHARGE OF: WEN
 DESIGNER: SL
 DRAFTER: DK
 CHECKER: WEN

NYCDOT MICROFILM IDENTIFICATION NUMBER
2-24119-0 F-26 051

DWG. NO. H-3
 SCALE: 1" = 20'
 DATE: 12-13-91
 SHEET NO. 26

CERTIFIED COPY OF THE RECORD OF
 N.Y.C. - D.O.T.
 BUREAU OF BRIDGE DESIGN

L.M.G. INTL., INC. 2-24119-0 F-26 051

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Appendix I – Changes in Pervious

Bruckner Boulevard - Change in Pervious

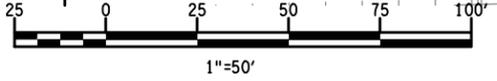
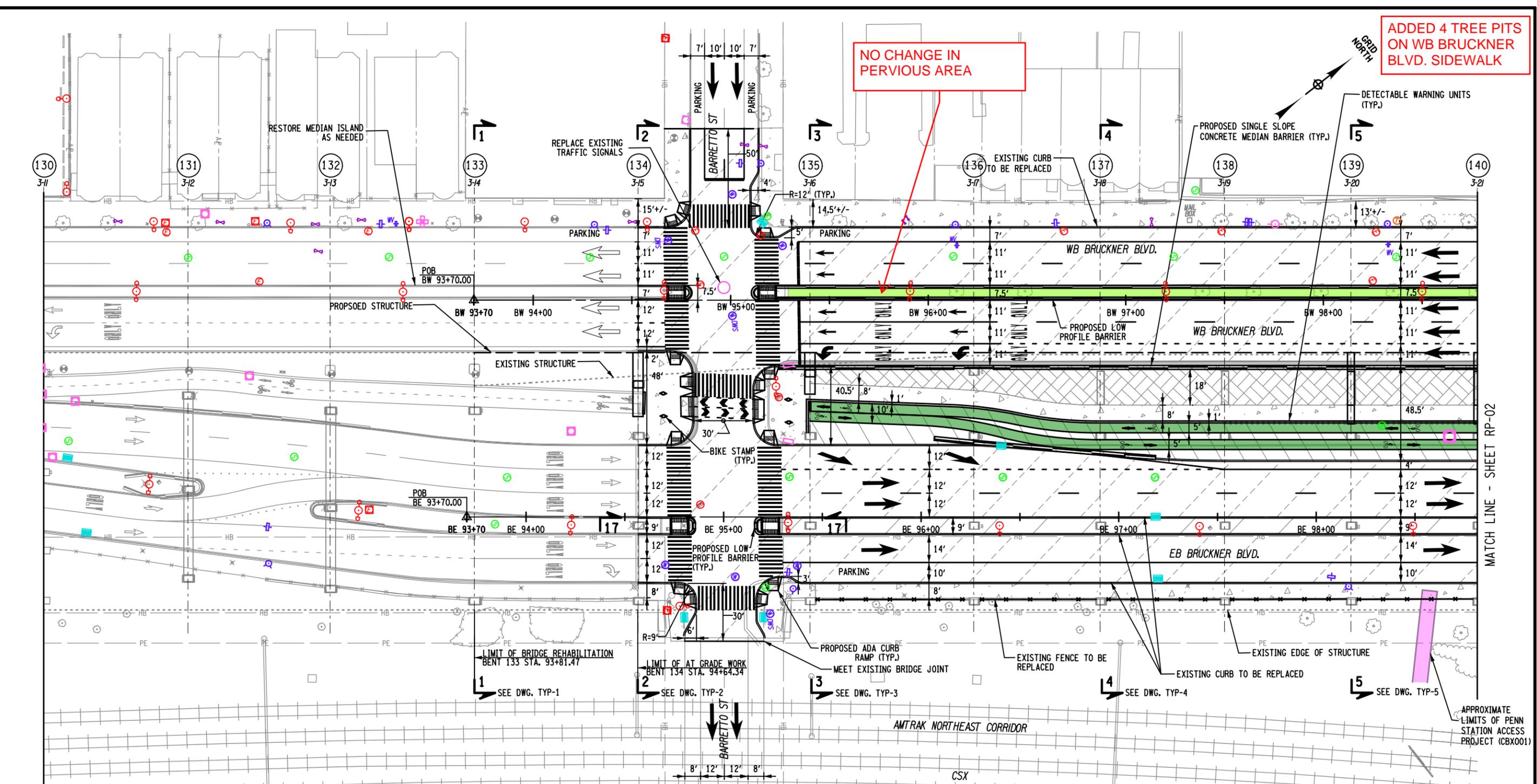
PLAN SHEET	SQUARE FOOTAGE ADDED (REMOVED)	DESCRIPTION
RP-01	200	Median - No Change, Added 4 Tree Pits
RP-02	856	Added Landscape Areas, Added 1 Tree Pit
RP-03	4956	Added Landscape Areas, Removed 8 Tree Pits, Added 7 Tree Pit
RP-04	2388	Added Landscape Areas, Shifted Pervious Median

Net Pervious Gain (SF)	8400
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Appendix J – Roadway Plans

FILE NAME = pwr/.../XT131.65.Hunts Point Truck Access - Contract 3/CAD/01 AECOM/Civil/XT131.65.PRS.GNP_201-AECOM.dgn
 DATE/TIME = Friday, May 06, 2022 06:34:46 PM
 USER = uma.lakshman

PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



NOTES:

- THE DIRECTIVE ELEMENTS OF THE ROADWAY PLANS INCLUDE: INTERSECTION CONFIGURATIONS, LANE WIDTHS, CURB AND BARRIER LOCATIONS, PAVEMENT RECONSTRUCTION LIMITS, PAVEMENT REHABILITATION LIMITS, MEDIAN RECONSTRUCTION, SIDEWALK RECONSTRUCTION, FENCING, REMEDIATION WITHIN AMTRAK ROW, AND THE ALIGNMENT AND WIDTHS OF THE PEDESTRIAN PATH, BICYCLE PATH, AND SHARED USE PATH. THE DESIGN BUILDER IS RESPONSIBLE FOR ALL ENGINEERING AND ANALYSIS TO ACHIEVE THE DIRECTIVE RESULTS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
- THE CONTRACTOR SHALL USE SINGLE SLOPE CONCRETE MEDIAN BARRIER AS SHOWN IN DRAWINGS. SINGLE SLOPE CONCRETE HALF SECTION BARRIERS MAY BE USED AT COLUMNS AND WHERE BACKUP POSTS WILL NOT IMPACT PEDESTRIANS AND CYCLISTS.

LEGEND:

	- NEW BENT NUMBER		- EXISTING EDGE OF STRUCTURE
	- OLD BENT NUMBER		- WORK DONE BY OTHERS
	- PROPOSED CONCRETE SIDEWALK / MEDIAN		- CLEARING, GRUBBING AND PLACE GRAVEL
	- PROPOSED ASPHALT MEDIAN		- PROPOSED LANDSCAPING AREA SEE URBAN DESIGN PLANS
			- PROPOSED COLOR ASPHALT BICYCLE PATH

AFFIX SEAL: ON:	ALTERED BY: ON:
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	

HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900055
CONTRACT 3				DIRECTIVE PLANS ROADWAY PLANS - 01	DRAWING NO. RP-01
FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.					SHEET NO.
COUNTY: BRONX	REGION: 11				

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



MATCH LINE - SHEET RP-02

FILE NAME = pwr/.../XT3165.Hunts Point Truck Access - Contract 3/CAD/01 AECOM/Civil/XT3165.PRS.GRP_202-AECOM.dgn
 DATE/TIME = Friday, May 06, 2022 06:37:05 PM
 USER = uma.lakshman

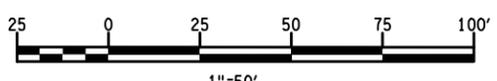
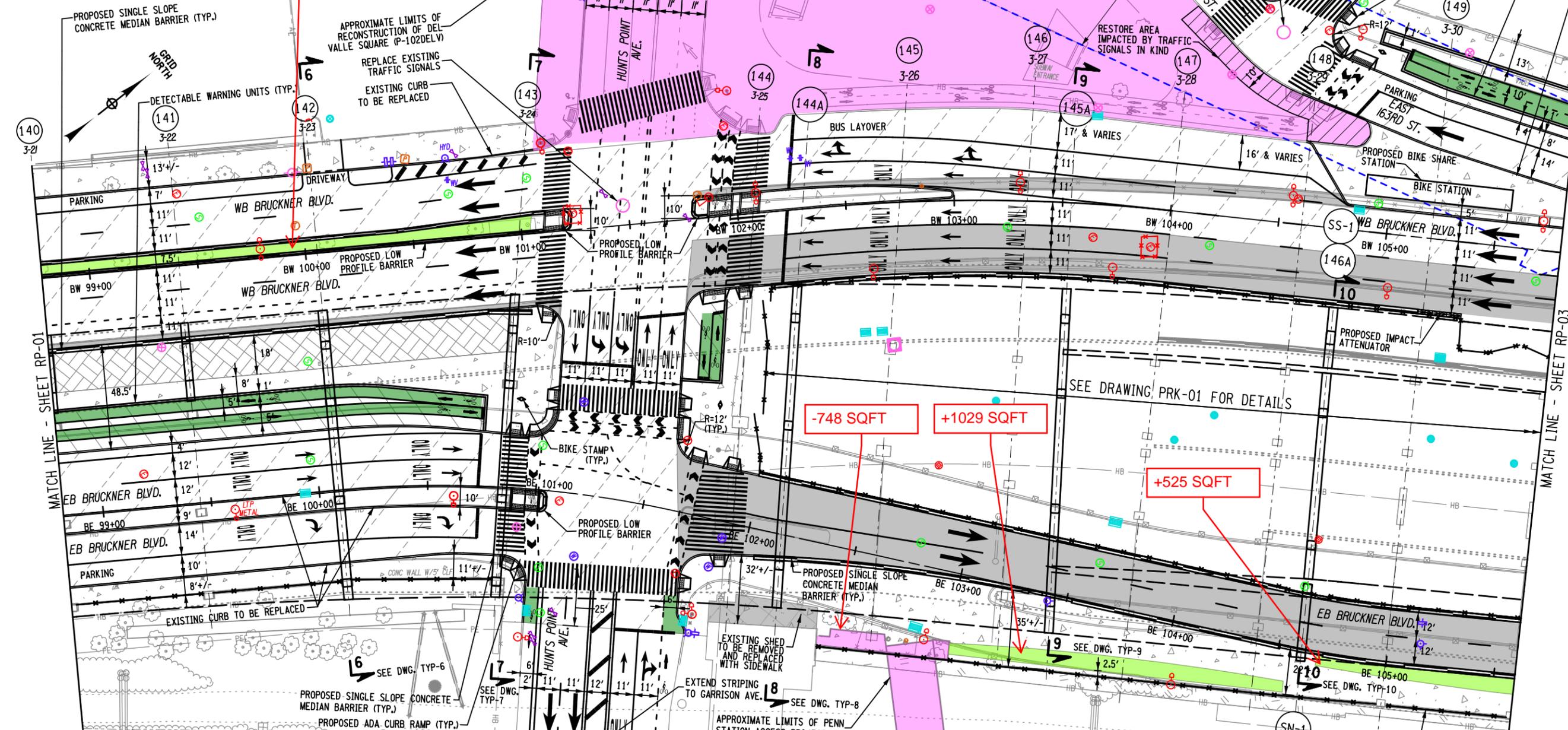
PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR

ADDED 1 TREE PITS ON WB BRUCKNER BLVD. SIDEWALK

NO CHANGE IN PERVIOUS AREA

-748 SQFT
 +1029 SQFT

+525 SQFT



NOTES:
 1. THE DIRECTIVE ELEMENTS OF THE ROADWAY PLANS INCLUDE: INTERSECTION CONFIGURATIONS, LANE WIDTHS, CURB AND BARRIER LOCATIONS, PAVEMENT RECONSTRUCTION LIMITS, PAVEMENT REHABILITATION LIMITS, MEDIAN RECONSTRUCTION, SIDEWALK RECONSTRUCTION, FENCING, REMEDIATION WITHIN AMTRAK ROW, AND THE ALIGNMENT AND WIDTHS OF THE PEDESTRIAN PATH, BICYCLE PATH, AND SHARED USE PATH. THE DESIGN BUILDER IS RESPONSIBLE FOR ALL ENGINEERING AND ANALYSIS TO ACHIEVE THE DIRECTIVE RESULTS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
 2. THE CONTRACTOR SHALL USE SINGLE SLOPE CONCRETE MEDIAN BARRIER AS SHOWN IN DRAWINGS. SINGLE SLOPE CONCRETE HALF SECTION BARRIERS MAY BE USED AT COLUMNS AND WHERE BACKUP POSTS WILL NOT IMPACT PEDESTRIANS AND CYCLISTS.

LEGEND:

- (43) - NEW BENT NUMBER
- 2-1 - OLD BENT NUMBER
- PROPOSED CONCRETE SIDEWALK / MEDIAN / CAP
- PROPOSED ASPHALT MEDIAN
- APPROXIMATE LOCATION OF EXISTING IRT SUBWAY
- PROPOSED EDGE OF STRUCTURE
- EXISTING EDGE OF STRUCTURE
- CLEARING, GRUBBING AND PLACE GRAVEL
- PROPOSED MILLING AND RESURFACING
- PROPOSED PAVEMENT RECONSTRUCTION
- PROPOSED LANDSCAPING AREA SEE URBAN DESIGN PLANS
- PROPOSED COLOR ASPHALT BICYCLE PATH
- WORK DONE BY OTHERS
- PROPOSED PAVERS SEE URBAN DESIGN PLANS
- EXISTING SHED TO BE REMOVED

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65
CONTRACT 3	BRIDGES
FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.	CULVERTS
COUNTY: BRONX	REGION: 11

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 DIRECTIVE PLANS
 ROADWAY PLANS - 02

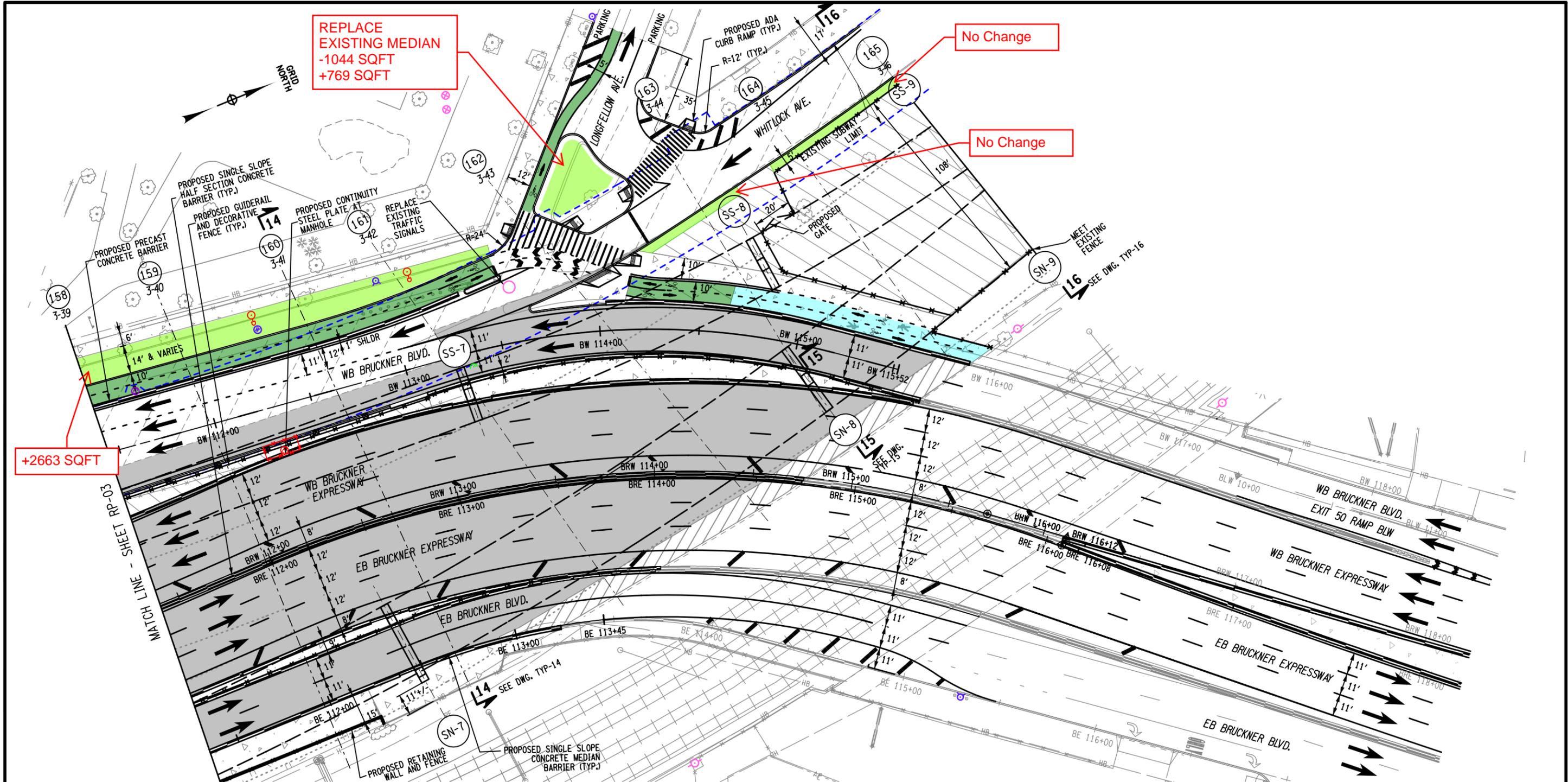
CONTRACT NUMBER
 D900055
 DRAWING NO. RP-02
 SHEET NO.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



FILE NAME = pwr/.../XT3165.Hunts Point Truck Access - Contract 3/CAD/01 AECOM/Civil/XT3165.PRS.GNP_204-AECOM.dgn
 DATE/TIME = Friday, May 06, 2022 06:38:50 PM
 USER = uma.lakshman

PROJECT MANAGER
 CHECK
 DRAFTING
 CHECK
 DESIGN
 JOB MANAGER
 DESIGN SUPERVISOR



NOTES:

1. THE DIRECTIVE ELEMENTS OF THE ROADWAY PLANS INCLUDE: INTERSECTION CONFIGURATIONS, LANE WIDTHS, CURB AND BARRIER LOCATIONS, PAVEMENT RECONSTRUCTION LIMITS, PAVEMENT REHABILITATION LIMITS, MEDIAN RECONSTRUCTION, SIDEWALK RECONSTRUCTION, FENCING, REMEDIATION WITHIN AMTRAK ROW, AND THE ALIGNMENT AND WIDTHS OF THE PEDESTRIAN PATH, BICYCLE PATH, AND SHARED USE PATH. THE DESIGN BUILDER IS RESPONSIBLE FOR ALL ENGINEERING AND ANALYSIS TO ACHIEVE THE DIRECTIVE RESULTS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
2. THE CONTRACTOR SHALL USE SINGLE SLOPE CONCRETE MEDIAN BARRIER AS SHOWN IN DRAWINGS. SINGLE SLOPE CONCRETE HALF SECTION BARRIERS MAY BE USED AT COLUMNS AND WHERE BACKUP POSTS WILL NOT IMPACT PEDESTRIANS AND CYCLISTS.

LEGEND:

(43)	- NEW BENT NUMBER	[Pink Box]	- WORK DONE BY OTHERS	[Dashed Line]	- PROPOSED EDGE OF STRUCTURE
2-1	- OLD BENT NUMBER	[Blue Dashed Line]	- APPROXIMATE LOCATION OF EXISTING IRT SUBWAY	[Hatched Box]	- EXISTING EDGE OF STRUCTURE
[Triangle Symbol]	- PROPOSED CONCRETE SIDEWALK / CAP	[Green Box]	- CLEARING, GRUBBING AND PLACE GRAVEL	[Blue Box]	- PROPOSED ASPHALT BICYCLE PATH
[Hatched Box]	- PROPOSED ASPHALT MEDIAN	[Light Green Box]	- PROPOSED MILLING AND RESURFACING	[Cyan Box]	- PROPOSED CONCRETE SHARED USE PATH

AFFIX SEAL: ON:	ALTERED BY: ON:
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AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT CONTRACT 3 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD. COUNTY: BRONX REGION: 11	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED DIRECTIVE PLANS ROADWAY PLANS - 04	CONTRACT NUMBER D900055 DRAWING NO. RP-04 SHEET NO.
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.



